1966
ANNUAL
REPORT

ANIMAL HEALTH DIVISION

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ANIMAL HEALTH DIVISION

R.G. CHRISTIAN, D.V.M., Dip. V. Path.,
Diplomate A.C.V.P., DIRECTOR

Division programs and services provided disease diagnostic results, inspection, consultation and extension information to help improve disease control, agricultural production and production of safe quality food. The Division is responsible for the administration of the Livestock Diseases Act, the Meat Inspection Act, the Fur Farms Act, the Animal Protection Act, and to a lesser extent the Veterinary Surgeons Act.

For the second year, there were no cases of Brucellosis diagnosed in the laboratories paving the way for future declaration of Alberta as a Brucellosis free Province.

Rabies in skunks continued to occur mainly in the County of Warner. The Population Reduction Program continued to be applied and to be effective.

The blowout of a large sour gas well near Lodgepole resulted in considerable effort by the Division to determine if adverse effects had occurred to livestock production.

The first Dr. J.G. O'Donoghue Memorial Lecture was held at the University of Alberta. The speaker was Dr. S.D. Acres from the Veterinary Infectious Disease Organization, who presented a lecture entitled "Resistence to Infectious Diseases in Farm Animals".

Grant funding was provided to the Yellowhead S.P.C.A. in Edson to assist in constructing a new animal shelter. Grant

funding was also provided to help the Alberta poultry industry assist a private veterinary practitioner to become established and offer disease investigation and flock health program services.

Mrs. K.I. Strausz retired from her position as Head of the Toxicology Laboratory following many years of service with the Alberta Government.

A variety of research projects were carried out during the year and are recorded in this report.

PATHOLOGY BRANCH

The Pathology Branch offered disease diagnoses for all species of animals in 1983 through 12,865 submissions from owners, veterinarians, and other government agencies and institutions. Extension activities were predominantly case related consultations as well as through Agrinews, Agfax, and producer meetings.

In the summer of 1983, the reporting system for companion animals was changed so that all information went to the practicing veterinarian eliminating extensive telephone consultation with pet owners. Computerization of the system continued allowing rapid access to reports on requests from the owners or their veterinarians. The system allows us to easily accumulate previous cases submitted by the same owner to help pick out those experiencing severe problems. A laboratory manual for pathologists was completed and distributed.

Following a major die-off of Bighorn sheep in Alberta and B.C., the branch became involved in the diagnosis and pathologic description of the disease. The problem was thought to be interrelated with grazing domestic sheep. Work continued in assessing records from the area affected by the Lodgepole sour gas blowout. The "Shaker calf" research was presented as an animal model for a human disease. This work is done in conjunction with the Universities of Calgary and Edmonton.

In order to study the best means of decontaminating poultry of Salmonella, federal research funds were obtained and a project carried out. The Infectious Laryngotracheitis policy was revised and fancy poultry flocks were advised to vaccinate for I.L.T.

Respiratory disease in feedlot cattle and calf scours in cow-calf operations remain as perennial problems. Steps are being taken to try and define the management problems leading to these diseases. Bovine virus diarrhea continues to occur sporadically and has been a difficult disease to deal with.

In swine, respiratory diseases and neonatal and weanling scours continue to be unresolved problems in that they seem to constantly appear. Antibiotic resistance is an increasing treatment problem and renews emphasis on good environmental conditions and intense sanitation.

REFERENCE LABORATORIES BRANCH

The main functions of this Edmonton-based laboratory branch were: 1) to provide a fast and accurate diagnostic support service to Edmonton pathologists, PMB veterinarians, private practitioners, and livestock producers; 2) to provide a province-wide reference laboratory service, particularly in the areas of virology-serology, electron microscopy, and toxicology.

The total workload handled by the branch involved 75,021 specimens, which constituted an eight per cent overall decrease compared to 1982.

General

One divisional position was designated in the Branch to be vacated in compliance with departmental budgetary direction for April 1, 1984.

Laboratory facility renovations, primarily concerning the bacteriology, serology, and histology-electron microscopy laboratories, took place which added a considerable strain to staff workload and interfered with work output. The end result, however, was relatively pleasing and provided more efficient use of laboratory space, and area working relationship.

Greater emphasis on internal, "round robin" and international quality control was placed in the bacteriology-mycology laboratories. The toxicology

laboratory continued this exercise from previous years. Newly recruited replacement staff included: Section Head in Toxicology (Dr. Brockman); Electron Microscopy Scientist (Dr. Leggett) and a secretary (Ms. Deacon).

Toxicology Section

Mrs. Strausz retired from the Section Head position. A veterinary toxicologist-physiologist (Dr. Brockman) was recruited in replacement.

The workload has diminished somewhat, particularly in the human submission load, possibly the result of increased activity at the newly-built facility of the Chief Examiners Office. The lowered veterinary load is still an after effect of the instrument related new protocol development.

Technique developments included analysis for recovery, identification, and quantitation of light petroleum products from rumen contents at the request of Dr. Beck; selenium analysis, in addition to other micronutrients, by atomic absorption spectrometry in whole blood and plasma.

Interesting cases included boron toxicity in cattle as a result of feeding on drilling mud and successfully identifying the presence of "Ralgro" in a bovine meat sample.

Surveys completed included: tissue zinc determinations (Dr. Basu - U of A); electrolyte imbalances in calves fed milk replacer (Dr. Nation, Airdrie); serum copper and zinc analyses in 441 calf and goat samples (Dr. Westra - Animal Industry Division).

Histology-Electron Microscopy Section

Dr. Armstrong continues to investigate capabilities in diagnostic tissue electron microscopy, and also has developed good liaison with Alberta Environmental Centre (Vegreville) personnel particularly to explore the diagnositic use of analytical electron microscopy.

Notable protocol developments included: Polaroid photomicrography and exact topographical location of interest on processed histologic tissue blocks for further EM workup; rapid (overnight) EM tissue processing and sectioning techniques.

An interesting case involved verification of a possible Parvovirus infection in porcupine in the Calgary Zoo.

Microbiology Section

Virology-Serology Laboratories

No Western Equine Encephalomyelitis (WEE) diagnosis was made this year. Surveys of mosquito pools for WEE virus were negative.

Bovine Leukosis Virus serology testing is now routinely used both for determining negative herd status for export purposes (United Kingdom and Ireland), and for diagnostic purposes.

Notable protocol developments included: establishment of the indirect fluorescent antibody technique (IFAT) for antibodies to WEE and Bovine Respiratory Syncytial Virus (BRSV); and the establishment of cell cultures from Bighorn Sheep, lamb lung tissues for viral isolation.

Surveys in progress or completed included: prevalence of porcine Parvovirus (Dr. Schipper); BRSV in feedlot cattle (Dr. Bolingbroke); province-wide sampling of Bovine Virus Diarrhea (BVD) titres in auction cattle (Dr. Church).

Interesting cases included: BLV reactors in a dairy herd; and a hog cholera suspect case, which turned out to be a Streptococcus species induced septicemia in a pig. This last case provided an involuntary test case for Provincial-Federal emergency measures preparedness.

Bacteriology-Mycology Laboratories

A considerable number of requests concerning bacterial pathogens from our storage facility were handled and sent to individuals both at research institutes and other diagnostic laboratories.

Notable developments included: increased emphasis on internal and external quality control procedures; establishment of diagnostic identification of Leptospira hardjo by means of FAT, courtesy Dr. Barbara Kingscote (ADRI Lethbridge); establishment of routine isolation and identification of zoonotic agent Campylobacter fetus subspecies jejuni; and the capability to isolate and identify Streptococcus suis type 2.

Surveys in progress or completed include: the presence of the peculiar non-hemolytic Pasteurella hemolytica biotype "T" in Bighorn Sheep lungs (Drs. Schwantje - WCVM and Onderka); bacterial pathogens in tissues from rats and guinea

pigs (U of A - two departments, AEC Vegreville); bacterial pathogens involved in mink losses (Dr. Onderka); FAT screening in the isolation process for Salmonella species from poultry litter (Dr. Pantekoek); minimum inhibitory concentration testing for various antimicrobial agents against Pasteurella hemolytica isolated from bovine respiratory tracts, using a commercially available microdilution tray (API-Uniscept).

An interesting case involved first isolation of the peculiar non-hemolytic Pasteurella hemolytica biotype "T" (Bighorn Sheep type) from a species other than Bighorn Sheep: bovine respiratory tract and caprine wound infection. The second isolation, Brucella canis, from an infected dog took place (first isolate was in 1982). The dog had travelled extensively throughout Mexico and California before its return to Alberta. A noteworthy case of Clostridium septicum infection was diagnosed from a member of horses injected with a new antiparasitic drug.

REGIONAL LABORATORIES BRANCH

The Regional Laboratories Branch was responsible for the operations of diagnostic laboratories located in Airdrie, Lethbridge, and Fairview. These laboratories offered a diagnostic service to livestock and poultry producers and their veterinarians from Red Deer south and from Valleyview north. As well, consultation on matters of disease and its prevention was provided to livestock and poultry producers and their veterinarians. Field trips were made to investigate unusual or serious disease problems.

Pasteurella pneumonia, Hemophilus somnus infection, coccidiosis, infectious bovine rhinotracheitis (IBR) virus infections, bovine virus diarrhea (BVD) continued to be prominent disease problems in cattle. Salmonella infection occurred in a few herds. Nutritional myopathy and bloat were seasonal problems of concern.

Hemophilus pleuropneumonia of pigs was a disease of concern to pig producers in the central and southern regions of the province. The incidence of transmissible gastroenteritis of piglets (TGE) was reduced over that of the previous year. Coccidiosis of nursing piglets occurred in a few herds. Leptospirosis was a cause for abortion in sows in southern Alberta.

Infectious laryngotracheitis (ILT) was diagnosed in several small fancy flocks as well as in one layer operation and one broiler breeder flock.

Salmonella dublin infection was found in two puppies. The source of the infection was believed to be uncooked dog food originating outside the province. Salmonella dublin is a serotype new to Alberta and one that has the potential to cause serious disease problems in food producing animals. The recognition of this problem and the steps taken to eliminate the source possibly prevented this infection from becoming established in our food producing animals. Salmonella dublin infection can cause serious ongoing economic loss.

The Airdrie laboratory continued to supply expertise in disease control and prevention to the Brooks Wildlife Centre. Negotiations were begun to have this service taken over by a private veterinary practitioner. The laboratory will continue to supply backup support as needed.

Both Airdrie and Fairview laboratories continued their involvement in instructing Animal Health Technician Students from Olds and Fairview Colleges and the Northern Alberta Institute of Technology.

Veterinarians at the Airdrie laboratory presented a series of lectures in comparative pathology to the resident students in pathology at the faculty of Medicine, University of Calgary.

PREVENTIVE MEDICINE BRANCH

The major responsibilities of the Preventive Medicine Branch were prevention and control of diseases in livestock herds, the administration of legislated animal health programs, safeguarding human health by control of designated diseases and enforcement of regulations for sale of livestock medicines. Herd disease prevention and production techniques were emphasized to livestock producers and veterinarians in Alberta. Legislative programs included livestock inspection at auction markets, livestock medicine outlet licencing, licencing of fur farms and designated communicable disease control. Disease prevention and control programs were provided by both the Epidemiology and Livestock Inspection sections. Research projects were initiated and carried out in 1983.

The demand for extension activities and programs from this Branch remained high during 1983. Livestock health and disease information was provided to livestock producers by all Branch veterinarians and many private sector veterinarians. The Animal Health Home Study Course was completed in Regions 1 and 2 and preparations were begun for delivery in Regions 3 and 4. Veterinarians in private practice throughout Alberta were also extensively utilized for auction market inspections, community pasture inspections, swine herd health visits, and disease investigations.

The six ARDA veterinary clinics in western and northern Alberta continued to provide a full range of veterinary service. The clinics at Edson, High Prairie, and Fairview remained viable practices, whereas those at Valleyview, Manning, and Fort Vermilion continued to require additional income support in order to retain practitioners in these areas. A mileage assistance program was continued to encourage greater use of the veterinary services in I.D. 23.

Participation in the Alberta Certified Preconditioned Feeder Program in 1983 decreased considerably from 1982 levels. There were 9,731 calves certified with 5,544 sold at 11 monitored sales in ten locations in Alberta. Producers received average additional prices of $4.50 cwt for preconditioned steer calves in 1983. Average total costs of preconditioning was $33.65 per head. Preconditioned calves have been shown to gain 20 to 40 pounds more than those not weaned. The proportion of preconditioned calves requiring treatment after sale in 1983 was one-third that of regular calves both in those remaining in Alberta and those shipped to Ontario. Dwight Karren continued as ACPF Coordinator assisting with administration of the ACPF program. Two research projects were continued to study the effects of preconditioning on cows and calves before sale and after sale in the feedlot.

The Bovine Respiratory Disease Project, funded by Farming for the Future, was continued as a joint project

between Alberta Agriculture and Veterinary Infectious Disease Organization. Dr. Susan Wilson supervised four full-time technicians who collected and entered data from the feedlots on the study in 1983. The objective of the study is to determine the risk factors which are associated with the development of respiratory disease in feedlot cattle in Alberta.

A vaccine trial to assess the efficacy of porcine parvovirus vaccine was commenced with the cooperation of a veterinary practitioner in southern Alberta. Eight herds were selected, their immune status to the disease serologically assessed, and during the next year complete reproductive histories for both vaccinated and unvaccinated sows will be obtained.

A study into livestock medicine sales in Alberta was completed in 1983 by Dr. Verna Thompson.

EPIDEMIOLOGY SECTION

The Epidemiology Section is responsible for the Designated Communicable Disease and Dead Animals Regulations of the Livestock Diseases Act, maintains broad surveillance on all diseases affecting food producing animals. In addition, the Section extensively participated in extension activities, conducted and provided resource materials for extension to producers, department staff and professional groups, carried out on-farm investigations of disease problems and administered the Swine Herd Health program. Veterinary practitioners continued to participate in local extension meetings and provided most of the herd visits in the commercial section of the Swine Herd Health Program.

The Animal Health Home Study Course was offered this year in Regions I and II. A total of 1,265 registrants participated with 84 per cent of these selecting the beef cattle option and 59 per cent the horse option. Other courses selected, in order, were swine, dairy, poultry, sheep, and goats. A total of 15 regional seminars were held throughout both regions and were generally very well attended. Veterinary practitioners conducted a number of local study groups in support of the course. In-service training sessions for the Department staff were held at Red Deer and Vermilion in preparation for delivery of the course in Region III and IV in early 1984.

Disease surveillance capability remains limited, but more detailed information was kept on all confirmed cases of those diseases named in the Designated Communicable Disease Regulations. In addition, action was taken to ensure that appropriate measures were taken to bring the outbreak under control and prevent its spread to other premises. Guidelines for handling outbreaks of salmonellosis and leptospirosis were written and are now followed in each case. The need for regulations to control deadstock yards was investigated and it was concluded that unless the need arises again, regulations will not be written.

A follow-up survey to determine the prevalence of Brucella ovis infection in sheep was commenced at the request of ADRI Lethbridge to help them to evaluate current serological tests. A more detailed protocol was provided in an attempt to avoid some of the problems apparent in the previous survey. A serological survey to determine the prevalence of BVD infection in the Alberta beef cow population was completed and the results will be summarized and made available early in 1984.

Extension

All members of the Branch were again actively involved in extension work throughout the year. The largest number of presentations (40) were made to livestock producers, but on eight occasions lectures were given to university

students; five to those at the University of Alberta and three to students at the Western College of Veterinary Medicine, Saskatoon. In addition, four presentations were given at professional meetings; seven to groups of Department staff and one to students at the Olds College. A higher proportion of meetings this year were related to swine (24), while 18 concerned beef cattle; seven for dairy cattle; three for sheep and two each for horses and goats.

Telephone interviews for radio broadcast or for publication were occasionally conducted and written material was prepared for publication on several occasions including a regular column in the Western Hog Journal and frequent contributions to the Dairy Division Newsletter. The health lesson for the Pork Production Home Study Course was re-written and the health section for the Dairy Home Study Course prepared.

Frequent use was made of our film and slide kit library during the year, particularly by veterinary practitioners throughout Alberta who find the resources invaluable for conducting local meetings. Many of these in 1983 were held in southern Alberta in conjunction with the Animal Health Home Study Course.

Disease Investigations

Disease problems were investigated indepth by members of the Branch on 28 farms. In several cases, more than one visit was required to collect further data or specimens, or to follow the progression of the disease. This also enabled alternate or supplementary courses of action to be suggested.

Fourteen of the premises visited were for dairy cattle; six for beef cattle; six for swine; one for sheep and one for wildlife. Mastitis was the commonest problem in diary cattle, although feet problems, Johne's disease, and an unusually high number of cases of displaced abomasum and of milk fever were studied. In beef cattle, calf scours and respiratory problems in feedlots were the main areas of concern. A variety of problems were investigated in swine operations including salmonellosis, neonatal diarrhea, respiratory disease and unusually high losses in weaners. The sheep flock visited was experiencing problems with mastitis in ewes and epididymitis in the rams.

Swine Herd Program

Again the program showed a significant increase in enrollment due to continued producer interest and the willingness of veterinary practitioners to participate. The demand for enrollment exceeded the resources available in 1983. However, the situation should improve in 1984 when many of the herds now enrolled in the commercial section only

receive two visits instead of four. This change, made to the program in 1981, should allow for a larger number of new herds to enroll in the commercial section. Private herd veterinarians also conducted the regular inspections on all the herds enrolled in the commercial section.

Preventive Medicine Branch veterinarians continue to conduct the initial inspection on all new herds and most of the visits to the herds enrolled in the seedstock section. Visits to seedstock herds were carried out by veterinary practitioners only when there was no involvement with shows, sales or the use of R.O.P. Test Stations. Visits to seedstock herds were generally carried out prior to the major provincial shows and sales in order to meet their requirements. On four occasions, a health certificate was not issued due to the presence of infectious disease on the premises. A satisfactory health status is also a prerequisite for permission to use R.O.P. Test Station space and four herds were suspended from this privilege during the year.

A meeting of the advisory committee planned for early December was postponed until early in 1984.

The overall health status of herds on the program remains good and most of the disease problems such as neonatal or weaning diarrhea, metritis-mastitis-agalactia, arthritis are related to deficiencies in management. During the year, Alberta swine producers became increasingly

concerned about hemophilus pleuropneumonia, a highly fatal disease of feeder pigs which appears to becoming more prevalent and difficult to control. Fortunately, none of the herds enrolled on the program have yet been afflicted with this condition.

Head and lung retrieval through the major packing plants remains good despite the smaller number of plants operating. The snout and lung scoring system has been well accepted by producers and cumulative scores for all seedstock herds are now published twice a year.

Summary of Activities for 1983

During the interval January 1, 1983 - December 31, 1983:

Number of seedstock herds increased from 58 to 60.

Number of commercial herds increased from 114 to 134.

Total membership increased from 172 to 194.

Number of herds deleted from the program - 10.

Number of herds added to the program - 32.

Number of herd health visits by private practitioners - 300.

Number of herd health visits by PMB staff - 133.

Number of snouts examined for scoring - 1,556.

Number of lungs examined for scoring - 2,660.

LIVESTOCK INSPECTION SECTION

Auction Markets

Inspection of livestock sold at auction markets for contagious disease was the main direction of the program in 1983. Several large lots of animals were rejected when it was determined that contagious disease was present and progressing through the group of animals.

Two new auction markets with excellent facilities opened this year; a large one at High River and a smaller one at Athabasca. Markets at Thorsby and Stony Plain ceased operation and remain closed. The total number of markets under inspection at the end of 1983 remained at 50. Restricted licences were issued for 11 premises for occasional sales only. These were mainly horse sales and fall calf sales sponsored by local producer associations. The total number of animals inspected (1,916,235) was down slightly from 1982. The number of sales was up marginally from 3,438 in 1982 to 3,483 in 1983.

The most frequent reasons for rejections of cattle (slaughter only and animals sent home) were cancer eye, lump jaw and lameness in that order. In August, pinkeye was the most common followed by cancer eye, lameness, footrot, and urogenital disease. Respiratory disease and fever were responsible for several rejections during the fall and winter months.

Hogs were rejected mainly for underweight, rhinitis, mange, arthritis and pneumonia problems. Footrot in sheep was often detected in the summer months. In these cases, the entire lot of sheep was rejected and quarantine orders were issued by the inspecting veterinarians.

Assembly Stations

Supervision of sanitation and operational standards was maintained at 47 livestock assembly stations. Veterinary inspection of animals at one of these larger stations was maintained to determine the nature of the operations to control the health standards of animals passing through it.

Community Pastures

Veterinary inspection of all livestock entering community pastures was again provided at 44 different pasture locations in 1983. A total of 188 inspections were conducted to inspect a total of 101,097 cattle and 12,300 sheep.

A disease investigation was conducted at the Minburn pasture which had experienced a severe pneumonia outbreak in calves during the 1982 pasture season. It was very dry during the early part of the grazing season in both years. During the disease investigation, it was determined that because of the shortage of forage the cows continually roamed the perimeter of the pasture while their calves walked along behind in a miniature dust storm. The dryness and the dust

was determined to be the primary cause of the problem. As in 1982 when rains arrived, the pneumonia stopped.

Forty-five (45) examinations of live animals were conducted on pastured animals. The most common problem requiring treatment was pneumonia.

The sheep footrot problem was eliminated at the Medicine Lake pasture. There were no cases of footrot detected while the sheep were on pasture nor at the end of the grazing season when they returned home. The eradication program will be maintained in future years.

Communication between Grazing Reserves personnel, veterinary inspectors, patrons and the Animal Health Division was strengthened through several meetings. This should serve to further improve the pasture herd health program.

Livestock Medicine Regulations

The purpose of maintaining licenced outlets under these regulations was to provide farmers and ranchers with a convenient source of certain livestock medicines. Regular supervision was provided to ensure they met the requirements of the regulations. In 1983, 270 premises were licenced and monitored by one full time inspector.

Complaints were received regarding illegal advertising and direct farm peddling of livestock medicines. Prohibited advertising is generally due to a lack of knowledge of the regulations. Letters of reprimand were issued to the

offenders who agreed to cooperate in the future. Two companies found to be selling medicines from farm to farm were informed that this was illegal and they immediately agreed to stop.

The most common violations detected during inspections were the sale of disallowed medicines or expired drugs and failure to keep adequate sales records. Records of all violations are maintained and used in determining penalties for repeat offenders.

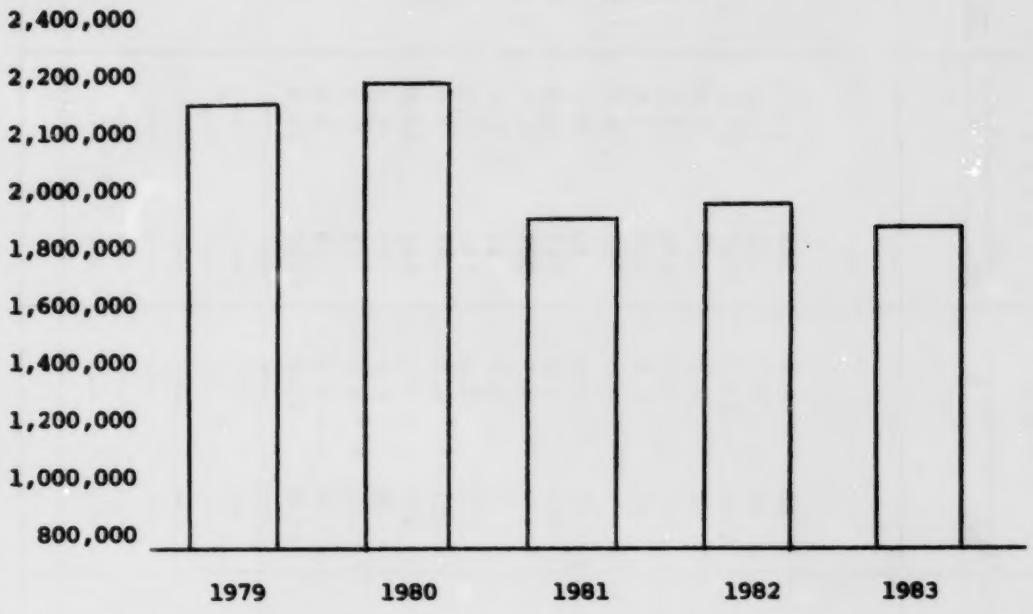
Fur Farms

Mink prices have stabilized to a point where the industry is still viable, but the potential for profit is minimal at this time. There were nine mink ranches licenced in 1983.

Fox farming remained viable and the fox association remained active with their annual education day and fox show. There were sixteen licenced fox farms in 1983. Some fur farmers have shown interest in raising lynx. At the present time there appears to be a reasonable potential for profit. There are now four different farms in the province raising lynx.

1979 - 1983

TOTAL NUMBER OF LIVESTOCK INSPECTED AT AUCTION MARKETS



SUMMARY OF RESULTS OF VETERINARY INSPECTION - 1983

No. of Auction Markets 50 No. of Sales 3,483

	Inspected in 1983	Inspected in 1982	% Change of 1982	Rejected At Sales	% Reject	Slaughter Only Animals	% Slaughter Only
Cattle	1,597,814	1,670,670	- 4.5	2,324	0.2	3,401	0.2
Swine	261,853	202,541	28.3	5,122	2.0	693	0.3
Sheep	33,641	32,579	3.3	133	0.4	594	1.8
Horses	17,577	15,146	16.0	16	0.1	32	0.2
Goats	5,350	3,629	47.4	1	0.0	18	0.3
TOTALS	1,916,235	1,924,565	-0.4	7,596	0.4	4,738	0.2

CATTLE
Reasons for Rejection/Slaughter

	1979		1980		1981		1982		1983	
	No.	%	No.	%	No.	%	No.	%	No.	%
Abscess	84	2.2	120	2.3	88	1.6	166	2.4	143	2.5
Arthritis	65	1.7	62	1.2	40	0.7	82	1.2	87	1.5
Cancer Eye	1299	34.0	1370	26.9	1541	27.3	1787	25.8	1325	23.2
Enteritis	17	0.4	24	0.5	42	0.8	129	1.8	158	2.8
Febrile	---	---	---	---	---	---	146	2.1	508	8.9
Footrot	83	2.2	69	1.3	81	1.4	125	1.8	124	2.2
Lame	---	---	---	---	---	---	463	6.7	576	10.0
Lice	37	1.0	11	0.2	21	0.4	41	0.6	41	.7
Lumpjaw	457	12.0	380	7.5	442	7.8	715	10.3	536	9.4
Mastitis	143	3.7	92	1.8	139	2.5	201	2.9	136	2.4
Metritis	5	0.1	17	0.3	9	0.1	12	0.2	0	0
Navel Infection	149	3.9	139	2.8	177	3.1	148	2.1	132	2.3
Pinkeye	230	6.0	228	4.5	351	6.2	264	3.8	316	5.5
Pneumonia	127	3.3	306	6.0	457	8.1	819	11.8	720	12.6
Ringworm	39	1.0	30	0.6	28	0.5	59	0.9	50	.9
Under Age	20	0.5	23	0.4	30	0.5	22	0.3	21	.4
Warts	---	---	5	0.1	38	0.7	6	0.1	0	0
Other Diseases	1708	30.4	1702	33.4	1918	33.9	1745	25.2	227	4.0
Physical Abnormalities	---	---	---	---	---	---	---	---	85	1.5
Bloat	---	---	---	---	---	---	---	---	87	1.5
Cardiac	---	---	---	---	---	---	---	---	49	.9
Central Nervous Disorders	---	---	---	---	---	---	---	---	35	.6
Distress	---	---	---	---	---	---	---	---	143	2.5
Hardware	---	---	---	---	---	---	---	---	3	0
Urogenital	---	---	---	---	---	---	---	---	223	3.9
TOTALS	5619	100.0	3821	100.0	5094	100.0	5655	100.0	5725.	100.0

SWINE

Reasons for Rejection/Slaughter

	1979		1980		1981		1982		1983	
	No.	%	No.	%	No.	%	No.	%	No.	%
Abscess	---	---	---	---	---	---	17	0.5	0	0
Arthritis	66	2.0	252	5.1	293	6.4	192	5.1	194	3.3
Dermatitis	38	1.1	32	0.7	12	0.3	6	0.2	16	.3
Enteritis	16	0.5	4	0.1	50	1.1	40	1.1	61	1.0
Lame	---	---	---	---	---	---	28	0.8	82	1.4
Mange	327	10.0	738	15.0	714	15.6	799	21.1	1,342	23.1
Pneumonia	167	5.1	99	2.0	140	3.1	30	0.7	159	2.7
Rhinitis	975	29.7	1624	33.0	1413	30.8	1285	34.0	1,798	30.9
Underweight	1399	42.7	1525	31.0	1397	30.5	1030	27.2	1,820	31.3
Parasitism	---	---	---	---	---	---	6	0.15	1	.01
Other Diseases	244	7.4	626	12.8	485	10.6	347	9.2	187	3.2
Central Nervous Disorders	---	---	---	---	---	---	---	---	0	0
Distress	---	---	---	---	---	---	---	---	99	1.7
Physical Abnormalities	---	---	---	---	---	---	---	---	56	1.0
TOTALS	3279	100.0	4915	100.0	4581	100.0	3781	100.0	5815	100.0

SHEEP

Reasons for Rejection/Slaughter

	1979		1980		1981		1982		1983	
	No.	%	No.	%	No.	%	No.	%	No.	%
Abscess	---	---	2	1.1	1	0.2	6	0.8	21	2.9
Arthritis	---	---	3	1.7	---	---	8	1.1	0	0
Distress	---	---	---	---	---	---	5	0.7	23	3.2
Footrot	---	---	76	43.4	303	56.1	572	78.9	550	75.7
Lame	---	---	---	---	172	31.9	97	13.4	11	1.5
Mastitis	---	---	---	---	1	0.2	4	0.6	7	1.0
Pneumonia	---	---	1	0.6	2	0.4	30	4.1	5	.7
ORF	---	---	---	---	---	---	---	---	62	8.5
Other Diseases	19	86.4	93	53.2	60	11.1	3	0.4	48	6.6
TOTALS	22	100.0	175	100.0	540	100.0	725	100.0	727	100.0

HORSES

Reasons for Rejection/Slaughter

	1979		1980		1981		1982		1983	
	No.	%	No.	%	No.	%	No.	%	No.	%
Influenza	6	10.3	5	7.7	3	7.0	2	3.5	1	2.1
Pneumonia	---	---	2	3.1	4	9.3	31	54.4	20	41.7
Strangles	43	74.1	14	21.5	1	2.3	7	12.3	6	12.5
Other Diseases	9	15.5	45	67.7	35	81.4	17	29.8	13	27.1
Lame	---	---	---	---	---	---	---	---	8	16.67
TOTALS	58	100.0	66	100.0	43	100.0	57	100.0	48	100.0

GOATS

Reasons for Rejection/Slaughter

	1979		1980		1981		1982		1983	
	No.	%	No.	%	No.	%	No.	%	No.	%
Lymphadenitis	1	100.0	---	---	1	4.8	17	89.8	7	36.8
Mastitis	---	---	1	11.1	2	9.5	---	---	1	5.3
Pinkeye	---	---	---	---	---	---	---	---	---	---
Skin Disease	---	---	1	11.1	---	---	---	---	---	---
Other Diseases	---	---	7	77.8	16	76.2	2	10.5	6	31.6
Pneumonia	---	---	---	---	---	---	---	---	5	26.3
TOTALS	1	100.0	9	100.0	21	100.0	19	100.0	19	100.0

MEAT HYGIENE BRANCH

During the 1983 calendar year the Meat Hygiene Branch employed two Supervisors, five Regional Supervisors, and 35 Inspectors on a full-time basis. We also employed 18 part-time Inspectors and 86 practicing veterinarians on a part-time basis.

Inspection was provided to 75 red meat plants, seven poultry plants, 74 Hutterite Colonies processing poultry, one rabbit plant, and one secondary processor.

Livestock inspected during the year included 43,900 cattle, 61,654 hogs, 9,794 sheep, 1,085 goats, 95 buffalo, 36,370 rabbits, 85,888 ducks, geese and turkeys, 1,874,339 broiler chickens and 276,213 fowl. The accompanying graph indicates the relative increase or decrease of activity of various species going through the system.

Condemnations for the year were approximately one per cent for cattle, .77 per cent for hogs, and two per cent for other species. In addition, 53,532 portions of animals were condemned.

Growth of the program continues. There is a potential for nine new plants in 1984 and probably at least five of these will be completed.

Enforcement activities picked up during the year with approximately 90 possible violations being investigated. Most of these people were persuaded to cease their activity

and four charges were laid against private citizens, three were convicted and one is still before the courts. One abattoir was charged with failing to properly dispose of a condemned carcass and with obstruction of the Inspector and was convicted on both counts.

MEAT HYGIENE BRANCH

PLANTS UNDER INSPECTION: Red Meat - 75 POULTRY: Hutterites - 74 Others - 7
Rabbits - 1

NUMBER OF INSPECTORS EMPLOYED: Full Time - 40 Part Time - 19

NUMBER OF VETERINARIANS EMPLOYED: 86

NUMBER OF ANIMALS INSPECTED:

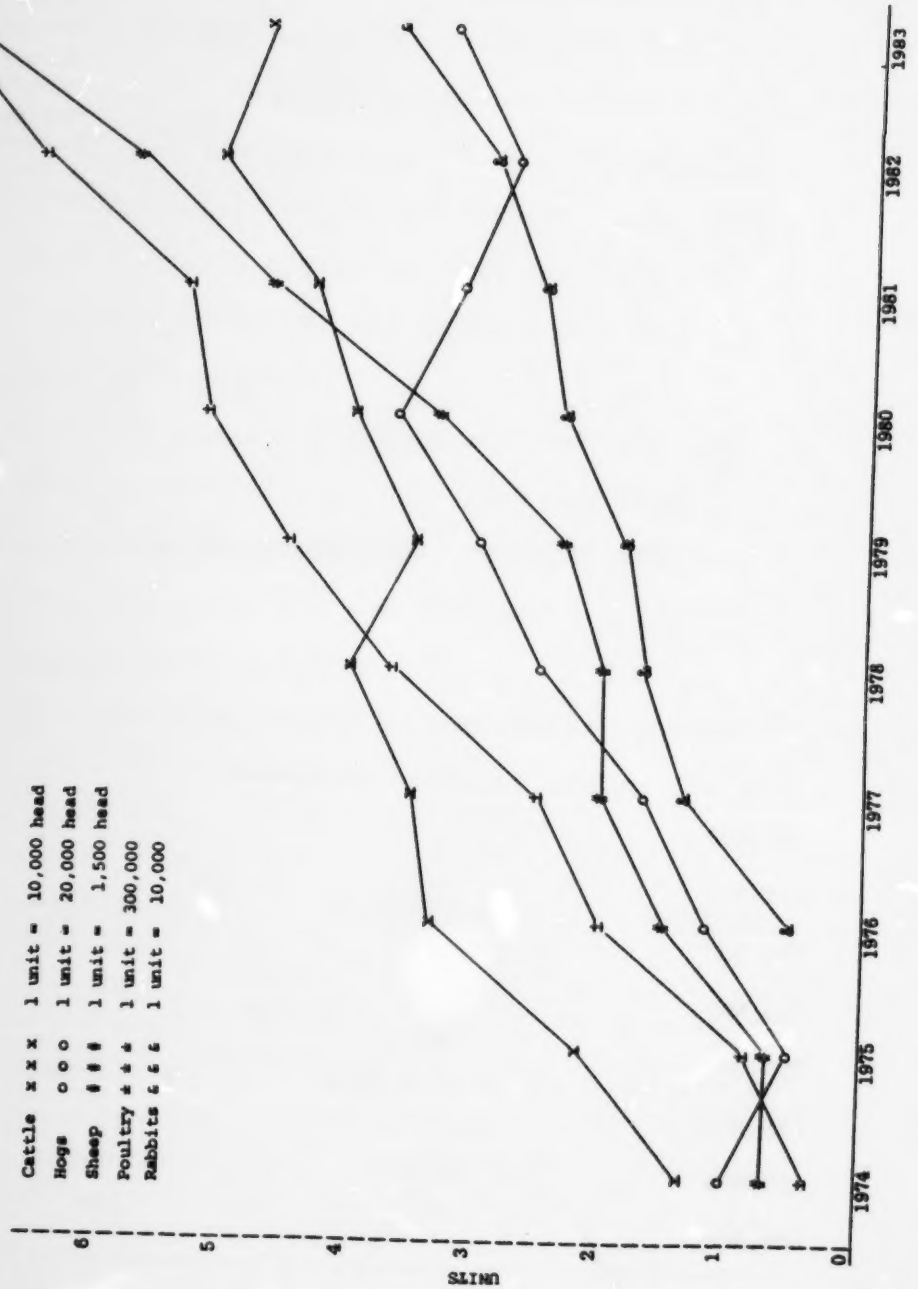
CATTLE - 43,900
HOGS - 61,654
SHEEP - 9,794
GOATS - 1,085
OTHERS - 95 Buffalo

RABBITS - 36,370
DUCKS, GEESE, ETC. - 85,888
BROILERS - 1,874,339
FOWL - 276,213

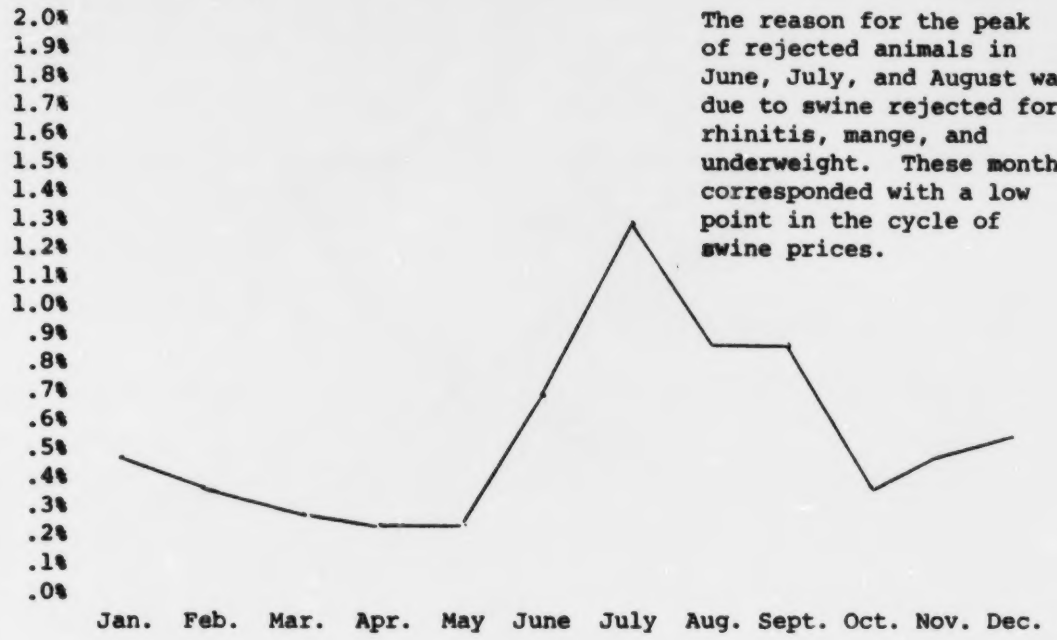
CONDEMNATIONS:

	Cattle	Hogs	Sheep	Goats	Rabbits	Poultry	Others
Whole Carcass	378	480	36	14	334	51,529	3
PORTIONS:							
Heart	205	2,168	34	7	12	408	
Liver	6,828	15,329	957	52	2,645	769	8
Kidney	3,170	1,649	76	20	153	100	1
Head	562	480	29	43			
Tongue	463	426	29	43			
Skin	2	13					1
Meat Portions	592	705	36	9	9	15,970	1

MEAT HYGIENE BRANCH

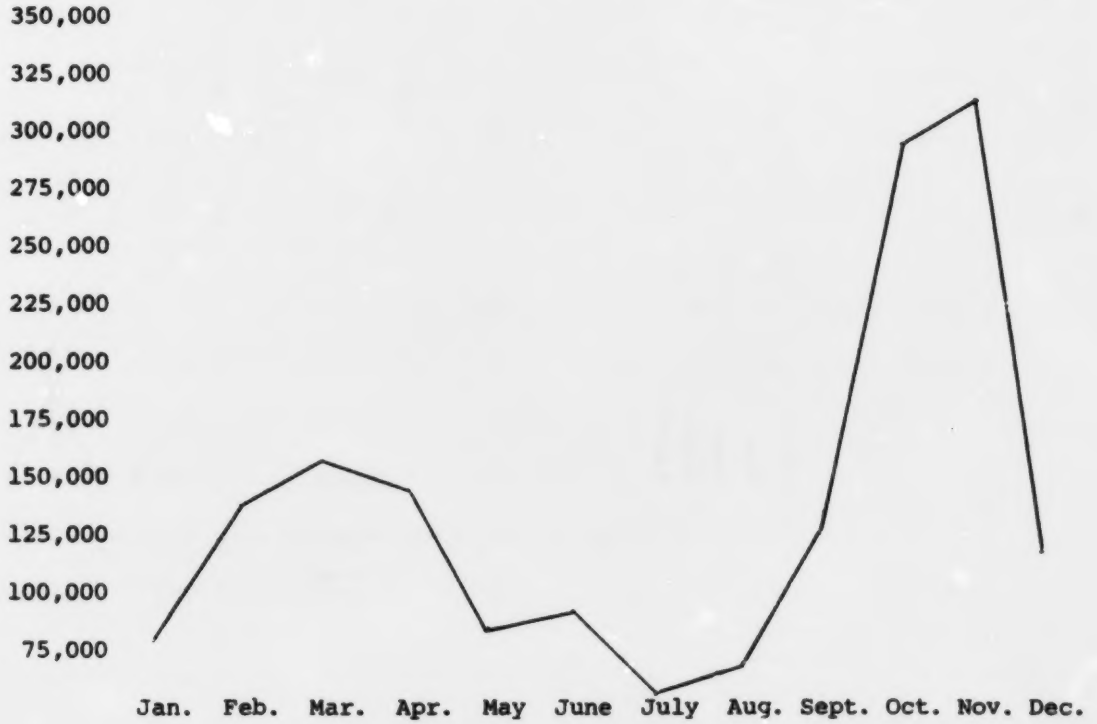


AVERAGE REJECTION RATE FOR ALL ANIMALS INSPECTED



The reason for the peak of rejected animals in June, July, and August was due to swine rejected for rhinitis, mange, and underweight. These months corresponded with a low point in the cycle of swine prices.

TOTAL ANIMALS INSPECTED IN 1983



LIVESTOCK DISASTER AND PREDATOR INDEMNITY PROGRAMS

These programs are administered in the division with decisions concerning indemnity made by committees operating in the Peace River district processing claims from that area and in Edmonton for claims originating in the balance of the province. The committees are comprised of representatives from the Animal Industry Division, Crop Protection and Pest Control Branch, Animal Health Division, Fish and Wildlife Division, Plant Industry Division, and farmers actively engaged in livestock production.

The programs are to indemnify livestock producers who have suffered losses through "Act-of-God" incidents over which they have had little or no control, farmers suffering livestock losses through predation and beekeepers suffering bear damage.

The following table will summarize the claims processed, monies distributed and a breakdown of predator claims for the calendar year, 1983:

	DISASTERS	PREDATORS	BEEYARDS
Claims	21	897	15
Rejections	14	213	0
Approvals	7	684	15
Monies Paid	$38,752.80	$262,410.80	$7,413.60

Predator Claims:

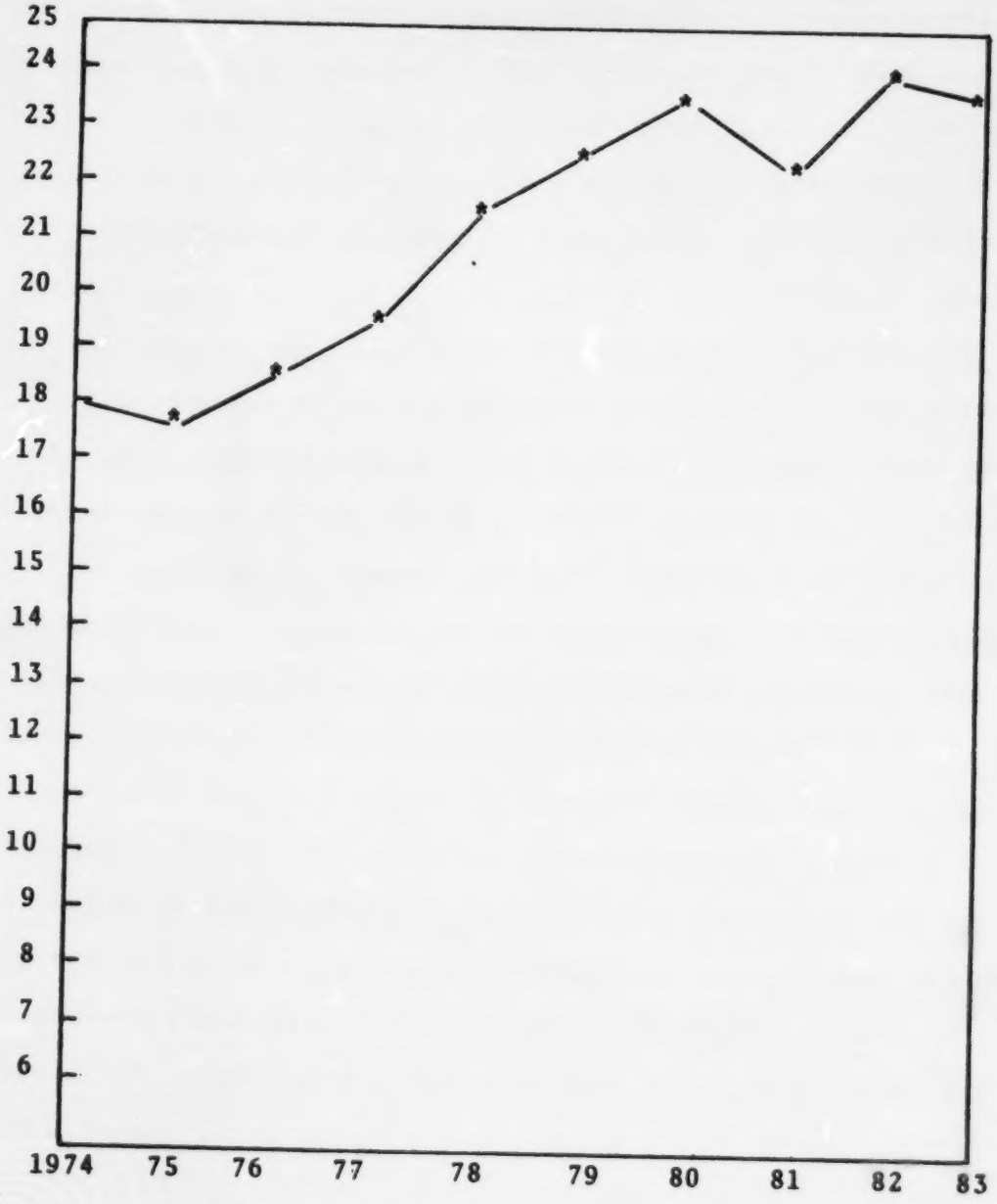
Bears	Coyotes	Wolves	Others
70	449	77	80

SPECIMENS EXAMINED

(by laboratory sections)

	1981	1982	1983
EDMONTON			
Animal	20,600	21,133	21,766
Poultry & Fish	16,789	17,851	15,080
Reproduction	2,470	2,896	2,778
Microbiology	31,254	25,663	22,681
Histology & E.M.	42,142	41,877	40,339
Parasitology	1,103	1,184	1,334
Toxicology	18,107	14,173	12,001
LETHBRIDGE			
Animal	5,717	8,587	8,414
Poultry & Fish	2,406	2,359	2,223
Microbiology	6,093	6,724	5,551
Histopathology	6,431	7,582	8,314
FAIRVIEW			
Animal	3,874	4,220	2,967
Poultry	300	391	538
Microbiology	4,435	4,356	2,634
Histopathology	4,373	3,788	3,588
AIRDRIE			
Animal	7,785	9,338	9,239
Poultry	9,245	9,290	5,157
Microbiology	8,698	8,450	8,047
Histopathology	18,489	19,386	23,122
TOTALS	210,311	209,248	195,773

SUBMISSIONS IN THOUSANDS



Submissions refers to samples received from an individual case. A submission may consist of one or more carcasses, tissues, blood, or milk samples, etc.

PROMINENT DISEASES - CATTLE

The usual variety of animal conditions comprised the routine diagnostic work. There was a reduction in total numbers down 15 per cent from 1982. Neonatal diarrhea and especially pneumonia were the important major economic diseases encountered. Johne's disease cases did increase 50 per cent from 1982. There were no cases of Salmonellosis compared to eight cases in 1982.

The reduction in pneumonia cases were down 17 per cent compared to 1982. The mild open fall ushering in the mild winter probably has influenced the drop in pneumonia submissions. No unusual trends in pneumonia types were noted.

There was no change in the low numbers of neonatal diarrhea cases. An early spring with dry ground conditions probably spared producers from scour epidemics especially those with suboptimal preventive management practices.

PROMINENT DISEASES - SWINE

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Enteric colibacillosis	107	15	14	73	209
Pneumonia	117	62	13	69	261
Pneumonia caused by *Hemophilus pleuropneumoniae*	10	0	0	25	35
T.G.E. (Transmissible gastroenteritis)	10	1	3	7	21

The diseases which were diagnosed most frequently in 1983, as in previous years, were pneumonia in feeder pigs and diarrhea in neonatal piglets.

Enzootic pneumonia and pasteurellosis were the types of pneumonia most frequently diagnosed, however, pneumonia caused by *Hemophilus pleuropneumoniae* caused severe losses on some farms.

Enteric colibacillosis was the most common cause of neonatal diarrhea. There was a moderate increase in the number of diagnoses of T.G.E. Neonatal diarrhea due to coccidiosis was diagnosed for the first time at Edmonton. Coccidiosis had been diagnosed previously at Lethbridge. Coccidiosis is a significant cause of neonatal diarrhea in eastern Canada and in the U.S.A.

PROMINENT DISEASES - HORSES, SHEEP AND GOATS

Two separate incidents of clostridial myositis resulting in the death of nine horses were encountered. The deaths followed the injection of a new broad spectrum antihelminthic. Salmonellosis was diagnosed in a foal and in an adult horse resulting in severe acute diarrhea and subsequent rapid death. Hepatic cirrhosis associated with the eating of Alsike clover was diagnosed in several regions. Carbofuran treated rapeseed resulted in illness and death in a group of horses who were accidentally exposed.

White muscle disease and coccidiosis were prominent diseases in lambs. There were several isolations of Brucella ovis from the testicles of rams which were collected at time of slaughter. This was part of a combined project with the A.D.R.I.(W) at Lethbridge who were evaluating the accuracy of their serological tests for brucellar epididymitis.

PROMINENT DISEASES - POULTRY

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Air Sacculitis (T*)	30	12	1	2	45
Arthritis, Staph Aureus (C**)	57	4	3	11	75
Chronic Respiratory Disease (C)	9	8	-	7	24
Coccidiosis (C)	58	15	1	4	78
Fowl Cholera (C & T)	14	8	3	-	25
Flip Over	509	7	9	4	529
Leg Weakness (C)	53	18	8	10	89
Leukosis (C)	106	7	2	5	120
Marek's Disease (C)	28	29	2	12	71
Omphalitis (C & T)	131	23	3	14	171
Septicem E Coli (C)	69	12	-	1	82
Tuberculosis	23	7	8	4	42

* Turkey (T) ** Chicken (C)

Leg weakness problems continue to be a significant problem in commercial broiler operations as well as small farm flocks. These leg problems generally fall into one of three categories, namely rotated tibias, angulated chondyles of the tibia, or dyschondroplasia. Acute death syndrome or the so called flip over disease was a significant factor in the total mortality in commercial broiler operations. Infection of bone and joints with Staphylococcus aureus continues to be the most prevelant disease condition observed in the broiler breeder flocks. Attempts to implicate viral arthritis with this syndrome have generally been non-productive. In contrast to other areas, the Staphylococcal infections would appear to be primary and not secondary to a virus.

PROMINENT DISEASES - POULTRY (continued)

Leukosis and Marek's disease accounted for most of the mortality in layer operations. The most significant problems in this industry, as related to lab submissions, involved bone strength and egg shell strength. These related to the ration and often an improper mixing of home prepared rations was implicated.

While fowl cholera was not a significant disease to the Alberta turkey industry, it did cause significant mortality in one commercial turkey operation. Aspergillus pneumonia accounted for significant losses in heavy turkeys as they approached market age. Mold contaminated litter appeared to be primarily responsible for this disease. Turkey coccidiosis became more significant as a disease entity in Alberta turkeys.

The Poultry Section was also involved in investigations of wild bird mortality. Salmonellosis caused die-off of birds at winter feeders which was of concern to the public. Fenthion, an organophosphate used in warble control in cattle, caused mortality in magpies which could accumulate the poison while eating hair and epidermal debris on the backs of treated cattle. Die-offs of wild ducks due to botulism were investigated.

SPECIAL INVESTIGATIONS

Alberta Poultry Breeder Flock Health Program

In co-operation with the Poultry Branch of the Animal Industry Division, environmental samples from turkey and chicken breeder flocks were examined for the presence of Salmonella bacteria. Cull chicks from replacements as received from the primary breeders were examined for salmonella or other potential pathogens. Unusual mortality associated with any of these birds were examined at the laboratory level. Cull chicks from the first hatch of offspring from these flocks were examined for salmonella and other potential pathogens. Fluff samples were cultured on a routine basis from all hatchers in the province. The primary breeders were advised as to whether salmonella species were isolated from their chicks submitted to the province. The multiplier flock owners were advised of salmonella species isolations on their premises and recommendations were made to prevent the shedding and spread of salmonella contamination.

Salmonella Broiler Barn Decontamination Project

This project was funded by the Salmonella Co-ordinating Unit of Agriculture Canada and administered and conducted by the Poultry Disease Section. The project was completed in February. There were few conclusions that could be definitely drawn from this study due to a relatively low

incidence of salmonella contamination in the twelve barns examined. It appeared that the method of cleanup and disinfection between cycles was sufficient to eliminate salmonella from the barns regardless of the type of disinfectant used. The primary source of salmonella contamination in barns appeared to originate from the introduction of contaminated chicks.

Chemical Immobilization of Wild Animals

This investigation is an ongoing one in conjunction with the Wildlife Division of Energy and Natural Resources and with Parks Canada. The potent narcotic agents, with the resultant human health hazards, have almost entirely been replaced by the safer Ketamine/Xylazine combination. These drugs were utilized in Elk trapping and transfer programs, timber Wolf study program, and in Bighorn Sheep projects. The drugs were also used for immobilization of Wildlife inadvertently trapped in cities.

Hemorrhagic Enteritis Vaccine Trials - Turkeys

In conjunction with VIDO, three flocks of turkeys were selected and utilized in a field trial of a new hemorrhagic enteritis vaccine. Each flock of turkeys was bled on several occasions and total mortality, growth rate, feed conversions, etc. were monitored. All participants in the program were very enthusiastic about the results and wish to obtain the vaccine for later use.

Reproduction Study in Fox Farms

A pilot study for the induction of heat in ranch foxes used 110 i.u. of PMSG per kg of body weight. External signs of estrus developed after seven days. Necropsy examination confirmed uterine and ovarian stimulation.

Association of Runted Chick Syndrome and Pancreatic Atrophy

Pancreatic atrophy in commercial broilers with stunted growth was investigated using feeding trials and daily tissue collections. Tissues were evaluated histologically and electron microscopically for evidence of selenium or Vitamin E deficiency. Reovirus and Adenovirus isolations from affected birds were used in experimental transmission studies to simulate a possible malabsorption problem. The cause of the pancreatic atrophy could not be determined.

Development of Diagnostic Expertise Associated with Poor Hatch Performance

Studies were developed to estimate the time and causes of death in embryonating turkey and chicken eggs. This also found application in identifying problems in the peregrine falcon rearing program.

Quantitation of Lungworm Loads in Bighorn Sheep

Methods of enzyme tissue digestion with preservation of the adult parasites were explored and developed. In order to

assess the reproductive activity of these worms, techniques to quantitate egg and larvae in lungs were developed and are now ready to be tested.

Bovine Interstitial Pneumonia

This type of pneumonia is being diagnosed with increasing frequency. Response to treatment frequently is unsatisfactory. A retrospective study was conducted and a seminar was held to discuss current knowledge of this disease.

Respiratory Syncytial Cell Pneumonia in Beef Calves

A new type of viral pneumonia was uncovered in Alberta cattle in 1983. It was recognized in six to eight month old beef calves after they entered feedlots in south central and southern Alberta. A small number of calves were affected and death losses were low.

Changes found in the lungs, primarily a syncytial cell bronchiolitis, strongly suggests involvement by one of the paramyxo respiratory viruses, either parainfluenza 3 (PI_3) or the bovine respiratory syncytial virus (BRSV). The former is known to cause a similar but milder pneumonia. BRSV pneumonia occurs commonly in the United Kingdom, Holland and the U.S.A. causing disease very similar to that observed in Alberta.

Serological studies indicate that both PI_3 and BRSV viruses are active in feedlot cattle at the time of entry. The investigations will continue in 1984.

Mesangiocapillary Glomerulonephritis in Finn Sheep

This disease was found in a small number of Alberta bred lambs in 1982. This was the first time it was reported to have occurred other than in Scotland. In order to learn more about this disease, a small flock of ewes, which had given birth to affected lambs, was acquired and were bred to a ram known to have sired affected lambs. This flock is being maintained at the Fairview laboratory and the first crop of lambs is expected in 1984. The comparative aspects of this disease are of interest to staff of the University of Calgary Medical College.

Infertility and Semen Evaluation of Male Foxes

Male infertility is a major problem in commercial fox production. Division staff in conjunction with the Semen Evaluation Laboratory are studying methods to evaluate fertility of male foxes.

Viral Enteritis in Porcupines

A previously unreported viral enteritis was found in porcupines in a zoo. Studies are in progress to gain more understanding of this disease condition.

Ureaplasma Infections in Southern Alberta Beef Cattle

Field and laboratory investigations into problems associated with reduced libido in bulls and a related vulvitis and infertility in cows were conducted in two beef herds in southern Alberta during July, August, and September, in conjunction with staff from the Animal Disease Research Institute, Canada Agriculture, Lethbridge. Repeated isolation of a Ureaplasma sp. bacteria suggested that this agent was the probable cause of these clinical problems, as it has been associated with similar disease in dairy cattle in Ontario during the past several years. Further investigations into the distribution and pathogenicity of Ureaplasmas in southern Alberta beef and dairy cattle are continuing.

Congenital Anomalies in Calves

In 1982 and 1983, a rancher located in southeastern Alberta experienced serious problems with torticollis, arthrogryposis, kyphoscoliosis, swollen joints and fore-shortened front or hind limbs in both purebred and commercial calves. Genetic, viral and toxicological factors were considered as potential causes of these malformations. Genetic factors were discounted because of the occurrence of the problem in calves born into both purebred and commercial herds and because bulls of several breeds were used in the commercial herd. Viral causes were more difficult to

eliminate from consideration but were discounted because several cows were known to have produced affected calves in both years. Because lupines grow on the summer pasture on which cows in early pregnancy had grazed in these two years, and because the condition in these calves was remarkably similar to "crooked calf" disease, a lupine-associated condition reported in the western U.S., the toxic effects of the plants were considered to be the most likely cause of the problem. Surveillance of these herds is continuing to determine whether the problem will recur in calves born to cows grazing a lupine-free pasture.

PROFESSIONAL PUBLICATIONS - 1983

1. Church, T.L. Preventive Medicine in the Feedlots. Veterinary Clinics of North America: Large Animal Practice. 5:1 :29.
2. Frelier, P.F. and R.M. Lewis. Hematologic and Coagulation Abnormalities in Acute Bovine Sarcocytosis. American Journal of Veterinary Research.
3. Frelier, P.F., J. Pritchard, D.L. Armstrong, W.T. Nagge and R.M. Lewis. Spontaneous Mesangiocapillary Glomerulonephritis in Finn Cross Lambs from Alberta. Canadian Journal of Comparative Medicine.
4. Harries, W.N. Internal Parasites of Sheep presented at, and published in Alberta Sheep Symposium 1983 Proceedings.
5. Kennedy, Murray James. July 1983. A Revision of North American Species of the Genus Parametorchis Skrjabin, 1913 (Trematoda: Opisthorchiidae). Proc. Helminthol. Soc. Wash. :50 312-317.
6. Nation, P.N., P.F. Frelier, G.A. Gifford and B.D. Carnat. July 1983. Otitis in Feedlot Cattle. Canadian Veterinary Journal. :24 238.
7. Nation, P.N., P.F. Frelier and M. Schoonderwoerd. September 1983. Clostridial Myositis Following Ivermectin Administration. Canadian Veterinary Journal. :24 295.

TRADE PUBLICATIONS - 1983

1. Chalmers, G.A. Salmonella (Parathyphoid) Infections in Racing Pigeons. Yearbook, Canadian Racing Pigeon Union. 1983.
2. Chalmers, G.A. Some Veterinary Matters. Yearbook, Canadian Racing Pigeon Union. 1983.
3. Chalmers, G.A. Comments on Pigeon Racing in New Zealand. Yearbook, Canadian Racing Pigeon Union. 1983.
4. Church, T.L. Animal Health Quiz. Cattleman Magazine. 1983.
5. Church, T.L. Disease Prevention in Dairy Herds. Alberta Dairy Producer. 1983.
6. Kennedy, Murray. 1982 Intestinal Parasite Survey at Pembina Forage Association Pasture. The Hayshaker. 7:1 11-12. Jan. 1983.
7. Kennedy, Murray J. Lungworm in Cattle. Agri-fax. Jan. 1983.
8. Kennedy, Murray J. Parasites of Horses. Agri-fax. Jan. 1983.
9. Kennedy, Murray J. Manual for Sampling Parasites of Domestic Animals and Protocol for Submitted Specimens to the Parasitology Laboratory. March 1983.
10. Kennedy, Murray J. Coccidiosis in Cattle. Agri-fax. June 1983.
11. Stone, M.W. Cannibalism and Other Bad Habits III. Western Hog Journal. Winter 1983.

12. Stone, M.W. Know Your Coughs. Country Guide. May 1983.

13. Stone, M.W. Porcine Parvovirus Infection. Western Hog Journal. Spring 1983.

14. Stone, M.W. Salmonellosis. Western Hog Journal. Summer 1983.

15. Stone, M.W. Coccidiosis. Western Hog Journal. Autumn 1983.

CATTLE DISEASES

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Abomasitis	5	13	2	3	23
Abortions (see table)					
Abscess	17	5	4	0	26
Brain	1	0	1	4	6
Liver	3	8	3	8	22
Actinobacillosis	1	0	0	2	3
Actinomycosis	2	0	0	1	3
Anaphylaxis	5	1	0	0	6
Anemia					
Hemorrhage	3	2	3	1	9
Other	2	2	1	0	5
Anomaly	4	1	1	5	11
Alimentary	0	1	1	1	3
Cardiovascular	18	9	4	4	35
Eye & Ear	0	1	0	0	1
Multiple, Metabolic, & Others	22	0	0	0	22
Musculoskeletal	27	6	0	2	35
Nervous	14	1	0	0	15
Skin & Appendages	3	0	1	0	4
Urogenital	1	0	0	0	1
Anoxia	0	1	8	1	10
Antibiotics Negative	0	0	0	2	2
Arthritis					
Bacterial	1	0	0	0	1
Coryne	0	0	0	1	1
Fibrinous	0	0	0	1	1
Poly	2	2	0	1	5
Strep	0	1	0	0	1
Suppurative	1	0	0	0	1
Unknown	1	0	0	0	1
Arthrogryposis	0	0	0	1	1
Asphyxiation	0	1	1	0	2
Atresia Coli	1	0	0	0	1
Atrophy Muscle	1	0	0	0	1

CATTLE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Bacteria					
Actinomyces	1	0	0	0	1
Coryne. pyogenes	0	14	1	3	18
C. pseudotuberculosis	0	0	0	1	1
Campylobacter Sp	0	0	1	1	2
Cl. chauvoei	9	0	0	0	9
Cl. septicum	4	0	0	0	4
Coryne. Sp.	3	1	1	1	6
E. coli	17	26	0	15	58
Hemophilus somnus	2	9	0	2	13
Hemophilus Sp.	0	1	0	0	1
Klebsiella	0	1	0	0	1
Mixed Culture	0	4	0	0	4
Moraxella	1	3	1	0	5
Pasteurella hemolytica	9	15	1	7	32
Past. multocida	4	4	0	1	9
Past. Sp.	1	1	0	0	2
Proteus Sp.	0	0	0	1	1
Pseudomonas Sp.	0	1	0	3	4
Salmonella Sp.	1	12	0	1	14
Serratia	0	0	1	1	2
Staph. aureus	2	13	0	3	18
Staph. Sp.	2	2	0	3	7
Strep. agalactiae	0	1	0	0	1
Strep. dysgalactiae	1	3	0	1	5
Strep. Sp.	0	4	0	2	6
Strep. uberis	1	1	0	0	2
Bacillary Hemoglobinuria	0	0	0	2	2
Biopsy Uterus	1	0	0	2	3
Blackleg	33	8	2	2	45
Bloat	26	33	35	26	120
Blood Test Negative	24	0	0	0	24
Blood Test Positive	35	0	0	0	35
Bovine Virus Diarrhea	26	15	7	11	59
Braxy	0	2	0	0	2
Bronchitis	1	0	2	0	3
Cardiac Failure	7	6	8	5	26
Cardiac Tamponade	1	0	0	0	1

CATTLE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Cardiomyopathy	7	3	0	5	15
Cellulitis	4	2	1	0	7
Chilling	1	1	0	0	2
Coccidiosis Intestinal	8	7	0	9	24
Cold Injury	2	0	3	0	5
Colitis	5	6	0	1	12
Conjunctivitis	1	1	0	0	2
Cystitis	1	4	1	1	7
Deficiency					
Calcium Phosphorus Imbalance	4	3	0	0	7
Calcium	45	3	0	0	48
Copper	8	1	0	2	11
Immunologic	0	0	0	1	1
Iodine	0	1	2	0	3
Magnesium	6	5	0	0	11
Malnutrition	24	12	0	1	37
Other	0	2	0	1	3
Phosphorus	28	1	0	0	29
Selenium	2	3	0	0	5
Starvation	0	1	15	1	17
Vitamin A	1	0	0	0	1
Vitamin E	0	1	0	0	1
Dehydration	5	5	4	3	17
Dermatitis	3	2	0	3	8
Bacterial	0	0	0	1	1
Dermatomycosis	2	0	0	0	2
Displaced Abomasum	0	0	1	0	1
Disseminated Intra-vascular Coagulation	1	0	0	1	2
Dysentery	1	0	0	0	1
Dystocia	54	8	6	12	80
Electrocution	0	1	0	0	1

CATTLE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Emaciation	7	2	2	5	16
Encephalitis					
Hemophilus somnus	25	16	1	37	79
Nonsuppurative	1	5	1	2	9
Other	3	2	0	1	6
Suppurative	4	3	1	1	9
Encephalomalacia	2	0	0	1	3
Encephalopathy Coccidial	3	3	0	7	13
Endocarditis	2	3	0	1	6
Endometritis	0	2	0	0	2
Enteric Colibacillosis	18	9	0	24	51
Enteritis					
Catarrhal	0	2	0	0	2
Chemical	1	0	0	0	1
Chronic	1	1	0	1	3
Clostridium Sp.	0	5	0	1	6
Hemorrhagic	6	4	1	3	14
Necrotic	5	7	1	0	13
Parasite	1	0	0	0	1
Protozoa	3	0	0	0	3
Unknown	39	17	2	5	63
Viral	11	3	3	3	20
Enterotox D	0	1	0	0	1
Eosinophilic Myositis	0	0	1	1	2
Erysipelas	0	0	1	0	1
Experimental	0	17	0	1	18
Fat Necrosis	1	0	0	0	1
Fatty Liver Syndrome	0	0	0	1	1
Foot Rot	0	0	1	0	1
For Culture	74	79	95	1	249
For Cytology	1	0	0	0	1
For Hematology	136	2	10	1	149

CATTLE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
For Identification	40	72	20	10	142
For Serology	10	41	9	12	72
For Urinalysis	0	0	1	0	1
Fracture	0	2	0	1	3
Glossitis	0	0	0	1	1
Goitre	0	1	0	2	3
Granulation Tissue	2	1	0	1	4
Growth Inflammation	7	7	0	0	14
Gunshot	0	1	0	0	1
Hemoglobinuria	0	0	1	0	1
Hepatic					
Cirrhosis	4	0	0	0	4
Fibrosis	0	0	0	2	2
Lipidosis	5	0	0	1	6
Necrosis	4	1	0	1	6
Hepatitis	4	5	1	1	11
Necrotic	0	1	0	1	2
Toxic	0	1	0	0	1
Unknown	4	0	0	0	4
Hernia	0	0	0	1	1
Diaphragmatic	0	1	0	0	1
Hydrocephalus	1	2	1	1	5
Hydrops Amnii	1	0	0	0	1
Hyperplasia					
Cystic	0	1	0	0	1
Thyroid	0	0	0	1	1
Hypocalcemia	37	10	0	1	48
Hypogammaglobulinemia	1	0	0	0	1
Hypomagnesemia	5	4	0	1	10
Hypomyelinogenesis					
Congenital	1	0	0	0	1

CATTLE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Hypoplasia Cerebellar	2	0	0	1	3
Infectious Bovine					
Neonatal	0	1	0	0	1
Other	4	0	0	0	4
Respiratory	9	4	0	3	16
Impaction	1	0	0	0	1
Indigestion	1	0	0	0	1
Infarct	1	1	0	1	3
Infertility	1	0	0	0	1
Intestinal Perforation	1	0	1	0	2
Intussusception	0	1	0	0	1
Johne's Disease	18	4	2	0	24
Keratitis	1	1	0	0	2
Keratoconjunctivitis	0	0	1	0	1
Ketosis	0	0	0	1	1
Lab Exams Negative	317	204	39	175	735
Laminitis	0	1	0	0	1
Laryngitis	0	1	0	0	1
Necrotic	0	3	2	1	6
Leukosis					
Erythroblastosis	0	1	0	0	1
Lymphoid	1	0	0	0	1
Lightning Stroke	0	0	2	0	2
Listeriosis	0	0	2	0	2
Lymphadenitis	2	3	0	3	8
Malignant Catarrhal Fever	5	0	0	1	6
Malignant Edema	2	1	0	0	3

CATTLE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Mastitis	209	4	2	7	222
Coliform	3	5	0	9	17
Pasteurella	1	0	0	0	1
Pseudomonas	0	0	0	4	4
Staphylococcus	0	0	6	33	39
Streptococcal	0	0	3	13	16
Melanosis	0	0	0	1	1
Meningitis	8	1	3	1	13
Bacterial	3	0	0	1	4
Meningoencephalitis					
Suppurative	4	2	3	0	9
Metritis	7	4	1	2	14
Mismanagement	0	0	0	7	7
Miscellaneous Lab Findings					
Bones & Joints	0	0	0	1	1
Circulatory	10	2	0	7	19
Digestive	4	13	0	9	26
Eye & Ear	0	0	0	1	1
Hematopoietic	1	0	0	2	3
Liver	1	1	0	1	3
Muscle	1	1	0	0	2
Nervous	7	1	0	5	13
Other	11	19	0	20	50
Reproductive	8	1	0	21	30
Respiratory	10	4	0	5	19
Urinary	0	0	0	1	1
Myco Mucor Sp.	0	0	1	0	1
Mycosis	2	0	0	1	3
Myelitis	2	0	0	0	2
Myocarditis	9	13	0	5	27
Myopathy	5	4	1	7	17
Nutritional	18	4	1	0	23
Myositis	2	2	1	2	7
Neoplasms (see table)					
Negative Salmonella	0	0	0	21	21

CATTLE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Neo Natal Diarrhea	21	19	0	5	45
Nephritis					
Embolic	2	0	0	0	2
Glomerulo	1	0	0	0	1
Interstitial	7	4	0	1	12
Other	5	1	0	1	7
Pyelo	6	2	3	3	14
Nephrosclerosis	1	1	0	1	3
Nephrosis	3	6	0	0	9
No Diagnosis	507	38	20	44	609
No Test	17	0	5	3	25
No Visible Lesion	76	0	0	13	89
Normal Tissue	16	0	1	9	26
Obstruction					
Esophagus	0	0	1	1	2
Intestinal	0	1	0	1	2
Omphalitis	0	3	4	3	10
Omphalophlebitis	5	6	0	2	13
Osteomyelitis	1	2	0	0	3
Parasitism (See Table)					
Panophthalmitis	0	1	0	0	1
Paratuberculosis	2	0	0	0	2
Pending	1	0	0	0	1
Pericarditis	3	6	0	0	9
Traumatic	1	0	0	0	1
Peritonitis	11	19	7	9	46
Pleuritis	3	2	3	5	13
Suppurative	1	0	0	0	1
Pleuropneumonia	2	0	0	0	2

CATTLE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Pneumonia					
Atypical Interstitial	38	19	10	32	99
Bacterial	13	0	1	11	25
Broncho	86	46	10	24	166
Chronic Nonresolving	25	6	1	12	44
Fibrinous	23	47	19	44	133
Granulomatous	1	0	0	0	1
Hemophilus	10	0	4	4	18
Inhalation	20	9	9	7	45
Interstitial	41	25	2	2	70
Mycotic	0	0	0	1	1
Other	24	27	2	5	58
Parasitic	4	1	0	1	6
Pasteurella	43	11	17	38	109
Suppurative	8	13	1	0	22
Viral	20	3	0	9	32
Polioencephalomalacia	23	5	0	19	47
Positive Salmonella	0	0	0	15	15
Pregnancy Toxemia	1	0	0	0	1
Proctitis	1	0	0	0	1
Pseudo Cow Pox	1	0	0	0	1
Pulmonary					
Edema	15	8	1	18	42
Emphysema	0	0	1	0	1
Fibrosis	2	0	0	0	2
Pyothorax	0	0	1	0	1
Rabies Negative	2	0	0	0	2
Reticulitis Traumatic	2	3	1	3	9
Rhinitis	0	1	0	0	1
Rumen					
Dysfunction	1	0	0	0	1
Overload	2	13	0	1	16
Rumenitis	1	8	1	0	10
Mycotic	1	2	1	0	4

CATTLE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Rupture					
Aortic	0	1	0	0	1
Bladder	0	0	0	1	1
Liver	0	1	0	0	1
Uterus	0	0	1	0	1
Satisfactory	1	0	0	0	1
Semen Evaluation	0	1	0	0	1
Sensitivity Exam	0	0	0	1	1
Septicemia					
E coli	8	0	0	3	11
Pasteurella	0	0	2	1	3
Pseudomonas	0	0	0	1	1
Staphylococcus	1	0	0	0	1
Streptococcus	1	1	4	1	7
Unknown	28	4	1	5	38
Serositis	0	0	0	1	1
Sialoadenitis	1	0	0	0	1
Sinusitis	1	0	0	1	2
Specimen Unsuitable	19	7	3	3	32
Starve Out	4	0	0	0	4
Steatitis	0	1	0	0	1
Stillborn	0	11	22	5	38
Stomatitis	0	0	0	1	1
Suitable Animals	1	0	0	1	2
Suitable for Human Use	3	2	2	3	10
Tetanus	0	0	0	1	1
Torsion					
Abomasum	3	4	1	1	9
Intestinal	4	6	1	1	12
Mesenteric	1	1	1	5	8
Toxemia	1	1	0	0	2
Tracheitis	0	1	0	1	2

CATTLE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Trauma	16	27	2	7	52
Tuberculosis	1	0	0	0	1
Tympanitis	1	0	0	0	1
Ulcer	1	1	0	2	4
Abomasal	7	14	12	6	39
Gastric	0	0	0	2	2
Unsatisfactory	0	0	0	6	6
Unsuitable Animals	1	0	0	1	2
Unsuitable for Human Use	1	0	1	0	2
Urethral Obstruction	0	0	0	1	1
Urinary Calculi	2	0	0	1	3
Vaginitis	0	0	0	4	4
Vascular Thrombosis	1	0	0	0	1
Vegetative Endocarditis	0	0	1	0	1
TOTAL	2,930	1,391	527	1,096	5,944

SWINE DISEASES

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Abortions (see table)					
Abscess	5	3	1	8	17
Brain	5	0	0	1	6
Cervical	0	0	1	0	1
Liver	0	1	0	0	1
Anemia					
Hemorrhage	2	2	1	0	5
Iron Deficiency	5	1	4	1	11
Other	1	0	0	0	1
Anomaly	1	0	0	0	1
Cardiovascular	1	0	1	1	3
Musculoskeletal	1	1	0	0	2
Nervous	1	0	0	0	1
Skin & Appendages	1	0	0	0	1
Anoxia	0	0	3	0	3
Arthritis					
Coryne	2	0	1	2	5
Degenerative	3	0	0	2	5
Poly	2	3	0	7	12
Staph	0	0	0	1	1
Strep	0	0	0	3	3
Unknown	1	0	0	0	1
Ascites	1	0	0	0	1
Asphyxiation	0	0	1	0	1
Atrophic Rhinitis	10	1	0	1	12
Bacteria					
Bordetella Sp	1	0	0	0	1
Campylobacter	0	0	1	1	2
Coryne Pyogenes	2	1	0	4	7
Coryne Sp	1	0	0	1	2
E Coli	17	14	0	9	40
E Coli Hemo	2	0	0	0	2
Hemoph Parahemolytic	7	0	0	1	8
Hemophilus Sp	0	4	0	2	6
Pasteurella Multicoda	4	3	0	1	8
Pseudomonas Sp	0	0	0	1	1
Salmonella Sp	0	0	0	1	1
Staph Sp	1	1	0	0	2
Strep A Hemo	1	0	0	1	2

SWINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Bacteria (Continued)					
Strep B Hemolytic	0	0	0	1	1
Strep Dysgalactiae	0	1	0	0	1
Strep Equi	0	3	0	0	3
Strep Sp	3	1	0	0	4
Treponema	1	0	0	0	1
Biopsy Uterus	0	0	0	1	1
Cardiac Failure	1	3	1	2	7
Cardiac Tamponade	0	0	0	1	1
Cardiomyopathy	1	1	0	1	3
Cellulitis	3	0	0	0	3
Chilling	0	0	1	0	1
Coccidios Intestinal	1	0	0	8	9
Colitis	0	12	0	0	12
Deficiency					
Cal Phos Imbalance	1	0	0	0	1
Calcium	1	0	0	1	2
Malnutrition	5	3	1	0	9
Other	0	1	0	1	2
Selenium	0	1	0	0	1
Starvation	0	0	9	5	14
Vit A	1	0	1	0	2
Vit E	0	1	1	0	2
Vit K	0	1	0	0	1
Dehydration	0	1	0	1	2
Dermatitis	4	3	0	0	7
Bacterial	0	3	1	0	4
Disseminated Intravascular Coagulation	1	0	0	0	1
Dysentery	1	1	0	0	2
Dystocia	9	0	0	3	12
Electrocution	1	0	0	1	2

SWINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Encephalitis					
Nonsuppurative	1	0	0	0	1
Other	0	0	1	0	1
Suppurative	0	2	0	1	3
Endocarditis	4	5	3	4	16
Enteric Colibacillosis	107	15	14	73	209
Enteritis					
Catarrhal	1	0	0	3	4
Chronic	1	0	0	5	6
Clostridium Sp	0	0	1	1	2
Granulomatous	0	1	0	0	1
Hemorrhage	1	5	3	6	15
Necrotic	12	4	0	10	26
Nutritional	1	0	2	0	3
Protozoa	0	0	0	3	3
Transmissible	0	0	0	3	3
Unknown	29	9	4	1	43
Viral	0	2	0	1	3
Erysipelas	11	4	1	1	17
Experimental	1	0	1	2	4
Feed Analysis	1	0	0	0	1
For Culture	82	9	6	4	101
For Hematology	0	0	1	0	1
For Identification	67	8	6	1	82
For Serology	2	0	0	0	2
Fracture	0	0	1	4	5
Gastritis	1	2	0	1	4
Gastroenteritis	1	1	0	1	3
Gingivitis	0	0	1	0	1
Glasser's Disease	1	0	0	0	1
Greasy Pig Disease	10	4	1	5	20

SWINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Hematoma	0	0	1	2	3
Hemorrhagic Enteritis Syndrome	1	1	0	0	2
Hepatic Fibrosis	1	0	0	0	1
Hepatic Necrosis	3	0	0	0	3
Hepatitis	2	0	0	1	3
Hepatosis					
Dietetica	0	1	0	0	1
Necrotic	0	0	0	1	1
Toxic	0	0	0	1	1
Hernia	0	1	1	0	2
Scrotal	0	0	1	0	1
Hydronephrosis	1	0	0	0	1
Hypoglycemia	1	0	0	0	1
Hypoplasia Cerebellar	0	0	1	0	1
Infarct	1	0	0	0	1
Intestinal Perforation	0	0	4	0	4
Intusussception	0	0	2	0	2
Lab Exams Negative	69	31	4	37	141
Leg Weakness	0	0	0	1	1
Lymphadenitis	1	0	0	0	1
Malabsorption Syndrome	1	0	0	0	1
Mastitis	2	0	0	2	4
Mastitis Metritis Agalactia	0	0	0	1	1
Meningitis	7	4	3	4	18
Bacterial	8	2	0	2	12

SWINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Meningoencephalitis					
Suppurative	2	2	2	4	10
Nonsuppurative	0	0	1	0	1
Metritis	0	0	0	4	4
Miscellaneous Lab Findings					
Bones and Joints	0	0	0	3	3
Circulatory	2	0	0	1	3
Digestive	4	10	1	4	19
Muscle	0	2	0	0	2
Nervous	0	1	0	2	3
Other	31	1	0	4	36
Reproductive	1	0	0	2	3
Respiratory	3	2	0	3	8
Urinary	1	0	0	1	2
Mismanagement	0	0	0	4	4
Mulberry Heart Disease	25	0	2	5	32
Mycoplasma Sp	1	0	0	0	1
Myelitis	1	0	0	0	1
Myocarditis	3	4	2	0	9
Myopathy	1	0	0	0	1
Nutritional	0	2	0	0	2
Myositis	1	0	0	0	1
Negative Salmonella	0	0	0	3	3
Neo Natal Diarrhea	14	13	0	7	34
Nephritis					
Embolic	2	0	0	0	2
Glomerulo	0	1	0	0	1
Interstitial	0	0	0	2	2
Pyelo	1	2	1	6	10
Other	1	0	0	0	1
Nephrosis	1	0	0	0	1
No Diagnosis	108	5	9	34	156
No Test	5	0	0	0	5

SWINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
No Visible Lesion	15	0	0	3	18
Normal Tissue	0	0	0	2	2
Omphalophlebitis	1	1	0	0	2
Osteomalacia	2	0	0	1	3
Osteomyelitis	0	1	0	1	2
Otitis Media	0	0	2	1	3
Parasitism (see table)					
Parakeratosis	1	0	0	0	1
Paralysis	1	0	0	0	1
Pericarditis	4	2	4	4	14
Peritonitis	6	6	4	4	20
Pitryriasis Roseae	3	0	0	2	5
Pleuritis	2	2	0	2	6
Pleuropneumonia	1	0	0	0	1
Pneumonia					
Bacterial	17	1	1	24	43
Broncho	38	18	1	13	70
Chronic Nonresolving	8	5	2	4	19
Enzootic	19	7	3	14	43
Fibrinous	12	8	3	9	32
Gangrenous	1	0	0	0	1
Granulomatous	1	0	0	0	1
Hemophilus	10	0	0	25	35
Inhalation	0	0	1	0	1
Interstitial	9	4	0	0	13
Other	5	14	0	0	19
Parasitic	0	1	0	3	4
Pasteurella	17	1	3	15	36
Suppurative	9	10	2	1	22
Polioencephalomalacia	1	0	0	0	1
Polyserositis	3	4	1	1	9

SWINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Porcine Stress Syndrome	6	2	0	1	9
Prolapse Rectum	0	0	0	1	1
Pulmonary Edema	10	2	0	3	15
Fibrosis	0	1	0	0	1
Pyometra	0	0	1	0	1
Rhinitis	2	3	0	0	5
Rupture					
Liver	0	0	0	1	1
Uterus	0	0	1	0	1
Septicemia					
E Coli	15	1	0	0	16
Streptococcal	24	2	2	6	34
Unknown	27	4	0	[illegible]	33
Serositis	2	0	0	0	2
S H H P	0	14	0	18	32
Shock	1	0	0	0	1
Specimen Unsuitable	3	5	0	8	16
Spraddle Leg	1	0	0	1	2
Starve Out	1	0	1	1	3
Stillborn	0	1	14	5	20
Stomatitis	0	0	0	1	1
Suitable Animals	2	0	0	0	2
Suitable for Human Use	0	0	0	3	3
Swine Dysentery	3	8	2	12	25
Torsion					
Intestinal	6	3	3	1	13
Mesenteric	2	1	0	10	13
Other	1	1	0	2	4
Stomach	0	2	0	0	2

SWINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Toxicosis (see table)					
Toxemia	1	1	0	1	3
Transmissible Gastroenteritis	10	1	3	7	21
Trauma	1	6	16	4	27
Tuberculosis	2	0	0	0	2
Ulcer	1	0	0	0	1
Gastric	6	3	1	14	24
Unsatisfactory	0	0	0	5	5
Unsuitable Animals	0	0	3	0	3
Unsuitable for Human Use	2	0	0	0	2
Urinary Calculi	0	0	0	1	1
Vegetative Endocarditis	1	0	2	0	3
Water Starvation	1	0	0	1	2
TOTAL	1,069	373	186	584	2,212

OVINE DISEASES

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Abomasitis	2	1	0	1	4
Abortions (see table)					
Abscess	4	0	1	4	9
Brain	1	0	0	3	4
Liver	0	0	0	1	1
Anemia Hemorrhage	1	0	1	1	3
Anomaly					
Cardiovascular	1	2	1	0	4
Multiple Metabolic & Others	2	0	0	0	2
Anoxia	0	0	1	1	2
Arthritis					
Suppurative	0	0	1	1	2
Unknown	0	0	1	0	1
Asphyxiation	1	0	0	0	1
Bacteria					
Bacillus Sp	1	0	0	0	1
Bacteroides	1	0	0	0	1
C Pseudotuberculosis	0	0	2	0	2
C Pyogenes	0	2	0	0	2
Cl Chauvoei	0	0	2	0	2
Cl Perfringens	0	1	0	0	1
Hemoph Somnus	0	1	0	0	1
Moraxella Sp	0	1	0	0	1
Past Hemolytica	2	0	0	0	2
Staph Sp	0	1	0	0	1
Strep Sp	1	0	0	0	1
Bloat	2	2	6	2	12
Braxy	1	0	0	0	1
Brucellosis	1	9	0	0	10
Cardiac Failure	2	2	1	0	5
Cardiomyopathy	1	0	0	2	3
Caseous Lymphadenitis	2	0	1	0	3

OVINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Cellulitis	0	1	0	0	1
Coccidios Intestinal	6	4	0	6	16
Cold Injury	0	0	2	0	2
Colitis	1	0	0	1	2
Contagious Ecthyma	0	2	0	1	3
Cystitis	0	2	0	1	3
Deficiency					
Copper	0	0	0	1	1
Malnutrition	7	2	0	0	9
Starvation	0	2	12	3	17
Vitamin E	0	1	0	0	1
Dehydration	0	1	0	0	1
Dermatitis	0	2	0	0	2
Dystocia	2	2	3	2	9
Emaciation	4	0	1	4	9
Encephalitis					
Nonsuppurative	0	0	0	2	2
Other	0	2	0	0	2
Suppurative	3	1	0	0	4
Encephalomalacia	1	0	0	0	1
Enteric Colibacillosis	0	0	0	1	1
Enteritis					
Clostridium Sp	0	3	2	0	5
Granulomatous	0	2	0	1	3
Hemorrhagic	0	1	0	1	2
Necrotic	0	0	0	1	1
Parasite	1	1	0	0	2
Protozoa	0	0	0	1	1
Unknown	4	1	2	1	8
Enterotoxemia					
Type D	0	0	0	1	1
Type C	0	0	1	0	1

OVINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Epididymitis	6	0	0	0	6
Foot Rot	10	3	0	0	13
For Culture	44	5	3	0	52
For Identification	6	5	6	2	19
For Serology	11	3	0	1	15
Fracture	0	0	1	0	1
Gastroenteritis	0	0	0	1	1
Goitre	0	0	1	2	3
Heat Prostration	1	0	0	0	1
Hepatic					
Fibrosis	1	0	0	0	1
Lipidosis	1	0	0	0	1
Hepatitis	0	0	0	1	1
Bacterial	0	0	0	2	2
Hydrops Amnii	0	0	0	1	1
Hypoglycemia	0	1	0	0	1
Icterus	0	0	0	1	1
Ileitis Terminal	0	0	0	1	1
Intestinal Impaction	0	0	0	1	1
Lab Exams Negative	86	28	10	13	137
Listeriosis	0	0	2	1	3
Lymphadenitis	0	0	1	0	1
Malignant Edema	1	0	0	0	1
Malocclusion	0	0	1	0	1
Mastitis	0	1	0	0	1
Staphylococcal	0	1	0	0	1
Streptococcal	0	0	0	1	1

OVINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Meningitis	2	1	1	0	4
Bacterial	1	0	0	2	3
Meningoen Suppurative	0	0	1	1	2
Metritis	0	0	1	1	2
Miscellaneous Lab Findings					
Bones & Joints	0	0	0	1	1
Digestive	0	3	0	2	5
Muscle	0	1	0	0	1
Nervous	1	0	0	0	1
Other	1	1	1	4	7
Reproductive	1	0	0	2	3
Respiratory	3	0	0	0	3
Myelitis	0	1	0	0	1
Myocarditis	0	2	0	0	2
Myopathy	0	1	2	0	3
Nutritional	2	2	2	0	6
Myositis	1	1	0	0	2
Neoplasm (see table)					
Neo Natal Diarrhea	2	0	0	0	2
Nephritis					
Glomerulo	0	0	5	0	5
Other	0	0	1	0	1
Pyelo	0	1	0	0	1
Nephrosis	0	0	2	0	2
No Diagnosis	41	6	7	11	65
No Test	4	0	0	0	4
No Visible Lesion	9	0	0	1	10
Normal Tissue	1	1	0	0	2
Orchitis	0	0	0	1	1
Osteomyelitis	0	0	0	1	1

OVINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Osteoporosis	0	0	0	1	1
Otitis Media	0	0	1	0	1
Parasitism (see table)					
Peritonitis	2	0	1	0	3
Pleuritis	1	0	0	1	2
Pleuropneumoniae	1	0	0	0	1
Pneumonia					
Bacterial	2	0	0	5	7
Broncho	22	6	0	8	36
Chronic Nonresolving	2	1	1	0	4
Enzootic	0	0	0	1	1
Fibrinous	0	1	0	0	1
Inhalation	0	1	1	2	4
Interstitial	1	4	0	0	5
Other	1	2	0	1	4
Parasitic	13	0	0	0	13
Pasteurella	7	1	12	9	29
Suppurative	3	2	3	0	8
Polioencephalomalacia	5	2	3	2	12
Pregnancy Toxemia	4	2	4	1	11
Pulmonary Edema	2	0	1	3	6
Rumen Overload	1	4	1	0	6
Rumenitis	2	0	4	0	6
Mycotic	0	0	1	0	1
Rupture Bladder	1	0	1	0	2
Liver	0	0	0	1	1
Scrapie	0	1	0	0	1
Septicemia					
E Coli	0	0	1	1	2
Pasteurella	1	0	1	0	2
Unknown	2	2	1	1	6
Sinusitis	0	0	1	0	1

OVINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Specimen Unsuitable	5	0	0	0	5
Starve Out	2	0	1	0	3
Stillborn	0	0	4	0	4
Tetanus	0	0	0	1	1
Torsion					
Intestinal	1	5	0	0	6
Mesenteric	0	0	0	4	4
Toxicosis (see table)					
Trauma	5	12	8	1	26
Ulcer Abomasal	0	1	0	0	1
Urethral Obstruction	0	1	2	2	5
Urinary Calculi	3	0	0	2	5
Vegetative Endocarditis	0	0	1	0	1
TOTAL	380	168	143	146	837

CAPRINE DISEASES

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Abscess	2	0	1	0	3
Brain	1	0	0	0	1
Anomaly					
Cardiovascular	0	0	0	1	1
Arthritis Unknown	1	0	0	0	1
Asphyxiation	1	0	0	0	1
Bacteria					
Bacillus	0	1	0	0	1
C Pseudotuberculosis	1	2	0	0	3
Coryne Sp	0	1	0	0	1
Moraxella	0	1	0	0	1
Pasteurella Hemolytica	0	1	0	0	1
Pseudomonas Sp	1	0	0	0	1
Staph Aureus	0	0	0	1	1
Strep Dysgalactiae	0	1	0	0	1
Bloat	0	1	0	0	1
Cardiac Failure	1	0	0	0	1
Cardiomyopathy	1	0	0	0	1
Caseous Lymphadenitis	12	1	0	0	13
Contagious Ecthyma	0	1	0	0	1
Cyst Epidermoid	1	0	0	0	1
Deficiency					
Malnutrition	3	0	0	0	3
Starvation	0	0	1	0	1
Emaciation	1	1	0	2	4
Encephalit Suppurative	3	1	0	0	4
Encephalopathy Coccidial	1	0	0	0	1
Enteritis					
Clostridium Sp	0	1	0	0	1
Unknown	5	0	0	0	5
Foot Rot	0	1	0	0	1

CAPRINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
For Culture	1	9	6	0	16
For Hematology	1	0	0	0	1
For Identification	0	1	2	1	4
For Urinalysis	0	2	0	0	2
Goitre	0	1	0	0	1
Growth Inflammation	1	0	0	0	1
Hepatitis Toxic	0	1	0	0	1
Johnes Disease	3	0	0	0	3
Lab Exams Negative	9	3	0	1	13
Mastitis	5	1	0	1	7
Staphylococcal	0	0	0	1	1
Meningitis Bacterial	1	1	0	0	2
Metritis	1	0	0	1	2
Miscellaneous Lab Findings					
Other	0	0	0	1	1
Reproductive	0	0	0	1	1
Myocarditis	1	0	0	0	1
Myopathy Nutritional	3	0	0	0	3
Neo Natal Diarrhea	1	0	0	0	1
Neoplasm (see table)					
No Diagnosis	11	2	0	1	14
No Test	1	0	0	0	1
No Visible Lesion	1	0	1	0	2
Parasitism (see table)					
Peritonitis	0	0	1	0	1

CAPRINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Pneumonia					
Bacterial	1	0	0	1	2
Broncho	1	2	0	0	3
Chronic Nonresolving	1	1	0	0	2
Fibrinous	1	0	1	0	2
Inhalation	1	0	1	0	2
Other	0	1	0	0	1
Pasteurella	0	1	0	1	2
Polioencephalomalacia	2	0	0	1	3
Pregnancy Toxemia	0	0	1	0	1
Pulmonary Edema	1	0	0	0	1
Rumen Overload	1	0	0	0	1
Rumenitis	2	0	0	0	2
Septicemia Unknown	0	1	0	0	1
Starve Out	1	0	0	0	1
Stillborn	0	1	1	0	2
Trauma	2	0	0	1	3
TOTAL	89	42	16	16	163

CHICKEN DISEASES

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Abscess	4	0	0	1	5
Air Sacculitis	10	6	1	3	20
Anemia					
Hemorrhage	8	2	0	0	10
Other	1	0	1	0	2
Anomaly	0	0	1	0	1
Musculoskeletal	1	0	0	0	1
Arthritis					
Bacterial	2	1	0	0	3
Staphylococcus	57	3	3	13	76
Suppurative	1	0	0	0	1
Unknown	0	1	0	0	1
Ascites	78	9	10	4	101
Aspergillosis	9	0	1	2	12
Asphyxiation	29	1	0	0	30
Bacteria					
E Coli	0	7	0	0	7
Past Multocida	0	1	0	0	1
Mycob Tuberculosis	0	1	0	0	1
Staph Aureus	0	3	0	0	3
Staph Sp	0	0	0	1	1
Breast Blister	1	0	0	0	1
Bronchitis	3	5	0	0	8
Bumblefoot	4	2	0	0	6
Bursal Disease	8	4	2	0	14
Caged Layer Paralysis	15	1	0	8	24
Cannibalism	23	3	6	1	33
Capillariasis	2	0	0	0	2
Cardiac					
Failure	25	0	1	2	28
Tamponade	1	0	0	0	1

CHICKEN DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Cellulitis	1	0	0	0	1
Chondrodystrophy	34	1	0	0	35
Chronic Respiratory Disease	7	0	0	0	7
Coccidiosis					
Cecal	29	1	0	1	31
Intestinal	21	3	0	2	26
Coligranuloma	5	2	2	0	9
Conjunctivitis	0	1	0	0	1
Deficiency					
Calcium	0	3	0	0	3
Malnutrition	5	5	5	1	16
Other	0	0	0	1	1
Starvation	0	0	3	0	3
Vitamin A	5	3	6	4	18
Dehydration	46	2	1	1	50
Dermatitis	0	0	0	1	1
Bacterial	0	0	0	1	1
Gangrenous	8	0	0	1	9
Egg Production Loss	6	0	0	2	8
Eggbound	1	0	0	0	1
Emaciation	27	5	2	3	37
Encephalitis					
Avian	8	0	0	2	10
Nonsuppurative	0	0	1	0	1
Other	0	1	0	0	1
Encephalomalacia	2	0	0	0	2
Endocarditis	3	0	0	0	3
Enteritis					
Catarrhal	1	0	0	0	1
Necrotic	19	4	4	1	28
Parasitic	0	0	0	1	1
Unknown	0	1	1	0	2

CHICKEN DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Erysipelas	0	1	0	0	1
Experimental	1	0	2	0	3
Fatty Liver Syndrome	6	0	0	3	9
Feed Analysis	10	0	0	0	10
Fibrosis	0	1	0	0	1
Flip Over	509	5	5	3	522
For Culture	91	3	1	0	95
For Identification	1	17	4	0	22
For Serology	15	2	0	8	25
Fowl Cholera	11	5	0	0	16
Fracture	1	0	0	0	1
Gizzard					
Erosion	5	0	0	0	5
Impaction	1	0	1	0	2
Gout	4	6	1	1	12
Visceral	40	3	0	4	47
Growth Inflammation	0	1	0	0	1
Heat Prostration	0	0	0	1	1
Hematoma	1	0	0	0	1
Hemorrhagic Liver Syndrome	65	0	0	1	66
Hepatic					
Fibrosis	1	0	0	0	1
Lipidosis	1	0	0	0	1
Necrosis	1	2	0	0	3
Hepatitis	1	3	1	1	6
Bacterial	13	0	0	0	13
Necrotic	0	2	0	0	2
Unknown	15	1	0	0	16

CHICKEN DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Histomoniasis	1	1	0	0	2
Hydrocephalus	1	0	0	0	1
Hyperplasia Biliary	0	0	0	1	1
Icterus	1	0	0	0	1
Impaction	5	0	0	1	6
Bowel	1	0	0	0	1
Oviduct	7	0	0	1	8
Infarct	1	0	0	0	1
Infectious					
Bronchitis	5	0	0	7	12
Laryngotracheitis	10	6	0	0	16
Sinusitis	1	0	0	0	1
Infected Yolk Sac	13	0	0	9	22
Intussusception	1	0	1	0	2
Keratitis	0	1	0	0	1
Keratoconjunctivitis	2	0	0	0	2
Kinky Back	10	2	0	1	13
Lab Exams Negative	37	27	1	7	72
Laryngitis	0	1	0	0	1
Laryngotracheitis	2	1	0	0	3
Leg Weakness	40	14	8	8	70
Leukosis					
Lymphoid	114	6	3	7	130
Undifferentiated	0	0	1	0	1
Litter Eating	7	0	0	0	7
Malabsorption Syndrome	0	1	0	0	1

CHICKEN DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Marek's Disease					
Generalized	9	22	0	4	35
Neuro	20	3	0	0	23
Ocular	0	0	0	1	1
Meningitis	1	0	0	0	1
Mismanagement	0	0	3	3	6
Miscellaneous Lab Findings					
Bones and Joints	1	1	0	1	3
Circulatory	1	0	0	0	1
Digestive	23	3	0	1	27
Eye & Ear	2	0	0	0	2
Hematopoietic	1	0	0	0	1
Nervous	1	0	0	0	1
Other	12	4	0	0	16
Reproductive	9	0	0	4	13
Respiratory	3	2	0	0	5
Mycoplasma					
Gallisepticum	0	1	0	0	1
Myocarditis	1	1	0	0	2
Myopathy	1	0	0	1	2
Neoplasms					
Adenocarcinoma	0	0	0	1	1
Ovary	10	0	0	0	10
Undifferentiated	1	1	0	0	2
Adenoma Ovary	1	0	0	0	1
Carcinoma	6	1	0	0	7
Fibroma	1	0	0	0	1
Fibrosarcoma	4	0	0	0	4
Hemangiosarcoma	0	1	0	0	1
Histiosarcoma	2	0	0	0	2
Other	0	0	0	1	1
Sarcoma	1	0	0	0	1
Negative Salmonella	0	104	0	45	149
Negative Salmonella Para	183	0	0	0	183
Nephritis					
Glomerulo	1	0	0	0	1
Interstitial	1	0	0	0	1
Other	1	1	3	0	5
Pyelo	0	1	0	0	1

CHICKEN DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Nephrosis	21	0	0	0	21
No Diagnosis	38	3	10	26	77
No Test	10	0	0	0	10
No Visible Lesion	87	0	1	7	95
Normal Tissue	1	0	0	0	1
Obesity	0	4	0	0	4
Obstruction Intestinal	0	1	0	0	1
Omphalitis	103	13	3	8	127
Omphalophlebitis	0	3	0	0	3
Oophoritis	0	5	0	0	5
Osteomalacia	2	0	0	0	2
Osteomyelitis	6	0	0	0	6
Osteoporosis	19	0	0	1	20
Otitis Media	0	1	0	0	1
Overheating	1	0	0	0	1
Parasitism (see table)					
Pancreatic Necrosis	0	12	0	0	12
Panophthalmitis	0	1	0	0	1
Pasted Vent	4	0	0	0	4
Pendulous Crop	1	1	1	0	3
Pericarditis	3	7	0	1	11
Peritonitis	36	15	4	5	60
Perosis	0	0	0	1	1

CHICKEN DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Pneumonia					
Bacterial	3	0	0	2	5
Broncho	2	0	0	0	2
Granulomatous	1	0	0	0	1
Inhalation	2	0	0	0	2
Mycotic	0	1	0	0	1
Other	0	1	0	0	1
Positive Mycoplasma	3	0	0	0	3
Positive Salmonella	21	19	0	8	48
Prolapse Cloaca	6	0	0	0	6
Pulmonary Edema	2	0	0	0	2
Reproductive Disorder	12	0	0	1	13
Rickets	13	0	1	1	15
Round Heart Disease	21	3	0	0	24
Rupture					
Liver	6	1	0	0	7
Tendon	13	0	0	0	13
Yolk	12	0	0	0	12
Salmonellosis	1	0	0	1	2
Septicemia					
E Coli	61	3	0	1	65
Pseudomonas	2	0	0	0	2
Staphylococcal	9	1	0	0	10
Unknown	1	0	0	0	1
Sinusitis	0	0	1	0	1
Specimen Unsuitable	43	1	1	0	45
Spraddle Leg	0	0	0	1	1
Starve Out	17	0	1	3	21
Stress	0	0	2	0	2
Suitable Animals	52	0	0	1	53
Suitable for Human Use	0	0	0	1	1

CHICKEN DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Synovitis	0	2	0	3	5
Tendon Rupture	1	3	0	0	4
Tibial Rotation	15	4	1	1	21
Torsion					
Intestinal	5	0	1	0	6
Toxicoses (see table)					
Tracheitis	4	2	0	5	11
Trauma	13	4	3	3	23
Tuberculosis	24	3	8	4	39
Typhlitis	1	0	0	0	1
Ulcer	0	0	1	0	1
Gastric	1	0	0	0	1
Gizzard	2	0	0	1	3
Unsuitable Animals	1	0	2	0	3
Unsuitable for Human Use	0	0	1	0	1
TOTAL	2,561	454	128	269	3,412

TURKEY DISEASES

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Air Sacculitis	18	10	1	3	32
Anemia					
Hemorrhage	2	0	0	0	2
Other	1	0	0	0	1
Aortic Rupture	1	0	0	0	1
Arizona Infection	0	0	1	0	1
Arthritis Staphylococcal	3	3	0	0	6
Ascites	4	2	0	1	7
Aspergillosis	16	1	0	2	19
Asphyxiation	4	0	0	0	4
Bacteria					
E Coli	0	2	0	0	2
Pasteurella Multocida	0	1	0	0	1
Candidiasis	3	0	0	0	3
Cannibalism	5	1	0	0	6
Cardiac Failure	4	0	0	1	5
Cardiomyopathy	0	1	0	0	1
Chronic Respiratory Disease	4	0	0	1	5
Coccidios Intestinal	8	0	0	0	8
Coligranuloma	1	0	0	0	1
Conjunctivitis	0	1	0	0	1
Deficiency					
Cal Phos Imbalance	0	1	0	0	1
Malnutrition	1	1	2	0	4
Phosphorous	2	0	0	0	2
Vitamin A	1	0	1	0	2
Dehydration	22	1	0	1	24
Dermatitis Foot	1	0	0	0	1

TURKEY DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Emaciation	2	0	0	0	2
Enteric Colibacillosis	0	1	0	0	1
Enteritis					
Catarrhal	13	0	0	0	13
Hemorrhagic	2	4	0	0	6
Necrotic	5	0	0	0	5
Transmissible	0	1	0	0	1
Ulcerative	1	0	0	0	1
Unknown	0	1	0	0	1
Viral	0	1	0	0	1
Erysipelas	1	1	0	1	3
Feed Analysis	2	1	0	0	3
For Culture	3	2	0	0	5
For Identification	2	0	1	0	3
Fowl Cholera	2	1	1	0	4
Fracture	2	0	0	0	2
Gizzard					
Impaction	57	0	0	0	57
Perforation	1	0	0	0	1
Gout	0	1	0	0	1
Hemorrhage Enteritis Syndrome	0	1	0	0	1
Hepatitis Unknown	3	0	0	0	3
Histomoniasis	10	1	5	3	19
Impaction	13	0	0	1	14
Bowel	16	0	0	0	16
Oviduct	1	0	0	0	1
Infectious Yolk Sac	2	1	0	0	3
Kinky Back	3	0	0	0	3
Lab Exams Neg	1	2	0	0	3

TURKEY DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Leg Weakness	10	0	1	4	15
Leukosis					
Undifferentiated	1	0	1	0	2
Litter Eating	6	0	0	0	6
Meningitis	0	1	0	0	1
Miscellaneous Lab Findings					
Bones and Joints	0	1	0	0	1
Circulatory	5	0	0	0	5
Digestive	0	0	0	1	1
Other	2	1	0	0	3
Reproductive	3	0	0	0	3
Respiratory	0	0	0	2	2
Mismanagement	2	0	0	1	3
Necrosis Skin	0	0	0	1	1
Negative Salmonella	0	3	0	0	3
Negative Salmonella Para	7	0	0	0	7
Nephrosis	3	0	0	0	3
No Diagnosis	4	2	4	3	13
No Visible Lesion	6	0	0	3	9
Normal Tissue	0	1	1	0	2
Omphalitis	11	1	0	0	12
Osteomyelitis	0	4	0	0	4
Osteoporosis	1	0	0	0	1
Parasitism					
Capillaria	0	0	1	0	1
Heterakis Gallinae	0	1	0	0	1
Lice	1	0	0	0	1
Pasted Vent	2	0	0	0	2
Pericarditis	1	1	0	0	2

TURKEY DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Peritonitis	1	0	0	0	1
Pneumonia					
Granulomatous	1	0	0	0	1
Other	0	1	0	0	1
Positive Mycoplasma	1	0	0	0	1
Positive Salmonella	1	0	0	0	1
Rickets	1	1	0	0	2
Round Heart Disease	4	5	1	1	11
Rupture Aorta	9	0	0	0	9
Salmonellosis	5	0	0	0	5
Septicemia					
E Coli	22	0	0	0	22
Staphylococcal	1	0	0	0	1
Sinusitis	1	1	1	0	3
Specimen Unsuitable	12	0	0	0	12
Spraddle Leg	2	0	0	0	2
Starve Out	37	1	1	0	39
Stress	2	0	0	0	2
Suitable Animals	4	0	0	0	4
Tibial Rotation	1	1	0	1	3
Trauma	3	0	0	1	4
Typhlitis	2	0	0	0	2
Ulcer Gizzard	1	0	0	0	1
TOTAL	419	70	23	32	544

EQUINE DISEASES

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Abscess	12	3	0	1	16
Actinobacillosis	1	0	0	0	1
Anaphylaxis	0	1	0	0	1
Anemia					
Equine Infectious	1	0	0	0	1
Hemorrhage	3	0	1	0	4
Isohemolytic	0	0	1	0	1
Other	1	0	0	0	1
Aneurysm	2	0	0	0	2
Anomaly	1	0	0	0	1
Alimentary	2	0	1	0	3
Eye & Ear	1	0	0	0	1
Musculoskeletal	1	0	0	1	2
Nervous	2	0	0	0	2
Skin & Appendages	0	0	0	1	1
Urogenital	1	0	0	0	1
Anoxia	0	1	0	0	1
Arthritis					
Bacterial	0	0	0	1	1
Chronic	0	0	1	0	1
Degenerative	0	0	1	0	1
Poly	0	0	1	0	1
Suppurative	2	1	0	0	3
Unknown	1	1	0	0	2
Atresia Coli	1	0	0	0	1
Bacteria					
Actinobacillus Sp	0	1	0	2	3
Actinomyces Sp	0	0	0	1	1
Bacillus Sp	0	1	0	0	1
Coryne Sp	1	1	0	1	3
E Coli	1	5	0	11	17
Micrococcus Sp	0	1	0	0	1
Mixed Culture	0	1	0	0	1
Past Hemolytica	0	1	0	0	1
Past Sp	0	2	0	0	2
Proteus Sp	0	1	0	0	1
Pseudomonas Sp	0	2	0	4	6
Shigella	0	1	0	0	1
Staph Aureus	1	4	0	6	11

EQUINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Bacteria (Continued)					
Staph Sp	0	2	0	5	7
Strep B Hemo	0	0	0	1	1
Strep Equi	2	5	0	2	9
Strep Sp	1	4	1	10	16
Strep Uberis	0	1	0	0	1
Strep Zooepidemicus	3	5	0	44	52
Biopsy Uterus	82	57	0	146	285
Bloat	0	2	0	0	2
Blood Test Negative	2	0	0	0	2
Blood Test Positive	4	0	0	0	4
Calcinosis Circumscripta	1	0	0	0	1
Cardiac Failure	1	1	1	0	3
Cardiac Tamponade	1	0	0	0	1
Cardiomyopathy	1	0	0	1	2
Cellulitis	3	2	0	0	5
Colitis	0	5	0	0	5
Colitis "X"	0	2	1	1	4
Cryptorchid	0	0	0	1	1
Cyst	2	1	0	0	3
Cystic Ovaries	1	0	0	0	1
Cystitis	1	1	0	0	2
Deficiency					
Immunologic	0	0	0	1	1
Iodine	0	0	2	0	2
Magnesium	1	0	0	0	1
Malnutrition	3	1	0	0	4
Phosphorous	2	0	0	0	2
Dermatitis	13	11	1	5	30
Allergic	1	1	0	0	2
Bact	1	0	0	0	1

EQUINE DISEASES

(Continued) DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Dermatomycosis	9	0	0	0	9
Disseminated Intravascular Coagulation	0	0	0	1	1
Dystocia	8	0	3	0	11
Emaciation	1	0	0	0	1
Encephalitis					
Nonsuppurative	2	1	0	0	3
Other	1	1	0	1	3
Suppurative	3	0	0	0	3
Encephalomyelitis					
Western	0	0	0	2	2
Endocarditis	0	1	0	0	1
Endometritis	0	0	0	1	1
Enteritis					
Granulomatous	0	1	0	0	1
Hemorrhagic	0	1	0	1	2
Necrotic	0	0	0	1	1
Parasite	2	0	0	0	2
Ulcerative	1	0	0	0	1
Unknown	1	2	0	0	3
Fibrosis	0	2	0	0	2
For Culture	119	45	44	0	208
For Cytology	0	0	1	0	1
For Hematology	10	0	25	3	38
For Identification	30	31	5	2	68
For Serology	1	3	2	0	6
For Urinalysis	0	1	6	0	7
Fracture	0	0	0	2	2
Goitre	0	1	0	0	1
Granulation Tissue	12	2	1	5	20

EQUINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Granuloma	4	0	0	0	4
Growth Hyperplasia	4	0	0	0	4
Growth Inflammation	16	8	0	3	27
Gunshot	0	1	0	0	1
Hematoma	0	1	0	0	1
Hemorrhag Disease	0	0	0	1	1
Hepatic					
Cirrhosis	1	0	0	0	1
Fibrosis	1	0	0	0	1
Lipidosis	1	0	0	0	1
Necrosis	2	0	0	0	2
Hepatitis	3	0	0	0	3
Bacterial	0	2	0	0	2
Necrotic	0	1	1	0	2
Toxic	2	0	0	1	3
Unknown	1	1	0	0	2
Hernia	0	2	0	0	2
Hyperpl Thyroid	0	1	0	0	1
Hypoplasia Cerebellar	1	0	0	0	1
Impaction	0	1	0	0	1
Intestinal Perforation	0	0	1	0	1
Intussusception	0	1	0	0	1
Lab Exams Neg	108	49	10	49	216
Laminitis	2	0	0	0	2
Leukoencephalomalacia	1	0	0	0	1
Lightening Stroke	0	1	0	0	1
Lymphadenitis	1	1	0	0	2
Malignant Edema	1	2	0	0	3

EQUINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Mastitis	2	0	0	0	2
Metritis	3	0	0	0	3
Miscellaneous Lab Findings					
Bones & Joints	0	2	0	1	3
Circulatory	6	1	0	2	9
Digestive	2	11	0	4	17
Liver	0	1	0	0	1
Muscle	0	0	0	1	1
Nervous	1	3	0	3	7
Other	2	2	0	6	10
Reproductive	0	0	0	11	11
Respiratory	4	2	0	1	7
Urinary	0	0	0	1	1
Myco					
Sp	0	1	0	0	1
Trichophyton Sp	1	4	0	0	5
Myeloproliferative Disease	0	1	0	0	1
Myocarditis	1	1	0	0	2
Myopathy	2	1	0	1	4
Myositis	4	0	0	0	4
Negative Salmonella	0	0	0	9	9
Neonatal Diarrhea	1	0	0	0	1
Neonatal Isoerythrolyses	1	0	0	0	1
Neoplasm (see table)					
Nephritis					
Embolic	1	0	0	0	1
Glomerulo	1	0	0	0	1
Pyelo	0	0	0	1	1
Nephrosclerosis	2	0	0	0	2
Nephrosis	0	2	0	0	2
No Diagnosis	45	4	2	6	57

EQUINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
No Test	3	0	1	1	5
No Visible Lesion	8	0	1	1	10
Normal Tissue	2	0	3	3	8
Omphalitis	0	1	1	0	2
Omphalophlebitis	0	2	0	1	3
Orchitis	1	0	0	1	2
Osteopetrosis	0	1	0	0	1
Parasitism (see table)					
Panophthalmitis	1	0	0	0	1
Pericarditis	1	0	1	0	2
Peritonitis	2	5	1	2	10
Photosensitization	1	0	0	0	1
Pleuritis	2	2	0	0	4
Pneumonia					
Bacterial	1	2	0	2	5
Broncho	2	0	0	3	5
Chronic Nonresolving	2	0	0	0	2
Fibrinous	1	1	0	0	2
Gangrenous	1	0	0	0	1
Inhalation	0	2	0	0	2
Interstitial	0	1	0	0	1
Other	0	2	0	0	2
Suppurative	1	2	0	0	3
Polioencephalomalacia	0	1	0	0	1
Proctitis	1	0	0	0	1
Prolapse Rectum	0	0	1	0	1
Pulmonary					
Edema	2	1	0	0	3
Emphysema	1	0	0	1	2
Rabies Negative	1	0	0	0	1

EQUINE DISEASES

(Continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Rhinopneumonitis Equine	1	0	0	0	1
Rupture Aortic	0	2	1	0	3
Rupture Stomach	1	1	0	0	2
Salmonellosis	1	0	0	1	2
Scoliosis	0	0	0	1	1
Septicemia					
E Coli	0	1	0	0	1
Streptococcal	1	1	0	0	2
Unknown	3	2	0	0	5
Shigellosis	11	7	1	0	19
Specimen Unsuitable	25	5	0	5	35
Stillborn	0	1	3	0	4
Strangles	6	0	0	1	7
Synovitis	1	0	0	0	1
Torsion					
Intestinal	6	3	0	0	9
Other	1	2	0	0	3
Toxemia	0	1	0	0	1
Toxicoses (see table)					
Trauma	6	6	2	1	15
Typhlitis	0	1	0	0	1
Vascular Thrombosis	1	1	3	0	5
TOTAL	687	386	132	390	1,595

CANINE AND FELINE DISEASES

(Airdrie, Fairview, and Lethbridge included)

DISEASE	CANINE	FELINE
Abortion		
Bact	0	1
Idiopathic	2	0
Other	1	1
Abscess	20	4
Liver	1	0
Acanthosis Nigricans	3	0
Alopecia	4	1
Amyloidosis	3	0
Anaphylaxis	2	0
Anemia		
Aplastic	0	1
Hemorrhage	16	4
Other	5	9
Anomaly	2	0
Alimentary	3	0
Cardiovascular	9	4
Multiple, Metabolic & Others	1	0
Musculoskeletal	2	0
Urogenital	2	0
Anoxia	2	0
Arterioscelerosis	1	0
Arthritis		
Chronic	1	1
Strep	1	0
Unknown	1	0
Ascites	2	0
Asphyxiation	2	0
Atrophy Muscle	1	0
Bacteria		
B Bord Bronchiseptica	1	0
E Coli	13	6

CANINE AND FELINE DISEASES

(Airdrie, Fairview, and Lethbridge included)

DISEASE	CANINE	FELINE
Bacteria (continued)		
Mixed Culture	4	0
Nocardia Sp	0	1
Pasteurella Multocida	1	2
Proteus Sp	4	0
Pseudomoas Sp	8	0
Salmonella Sp	1	1
Staph Aureus	44	4
Staph Sp	10	1
Strep Agalactia	1	0
Strep Canis	1	0
Strep Equi	1	1
Strep Sp	10	1
Bloat	1	0
Blood Test Positive	1	0
Bronchitis	0	1
Brucellosis	2	0
Calcinosis Circumscripta	11	4
Cardiac		
Failure	32	8
Tamponade	1	0
Cardiomyopathy	14	18
Cellulitis	11	5
Chylothorax	0	1
Coccidios Intestinal	1	1
Colitis	4	6
Conjunctivitis	4	3
Cryptorchid	0	1
Cyst	14	4
Adnexal	4	0
Epidermoid	33	3
Sebaceous	6	0

CANINE AND FELINE DISEASES

(Airdrie, Fairview, and Lethbridge included)

DISEASE	CANINE	FELINE
Cystic Kidney	0	1
Cystic Ovaries	0	1
Cystitis	22	29
Deficiency		
Malnutrition	11	8
Starvation	2	3
Dehydration	2	1
Dermatitis	127	22
Allergic	4	0
Bacterial	12	2
Endocrine	2	0
Mycosis	1	0
Nutritional	1	0
Dermatomycosis	3	2
Diabetes	2	4
Distemper	21	0
Dystocia	5	2
Emaciation	2	5
Encephalitis		
Nonsuppurative	8	1
Other	0	2
Suppurative	1	0
Encephalomalacia	2	1
Encephalopathy Coccidial	2	1
Endocardiosis	3	0
Endocarditis	3	2
Endometritis	8	0

CANINE AND FELINE DISEASES

(Airdrie, Fairview, and Lethbridge included)

DISEASE	CANINE	FELINE
Enteritis		
Catarrhal	0	1
Chronic	1	2
Cystic	1	0
Granulomatous	1	0
Hemorrhagic	5	0
Infectious Feline	0	11
Parasite	1	0
Unknown	25	12
Viral	167	1
Epididymitis	1	0
Erythremic Myelosis	0	1
Experimental	3	0
Fat Necrosis	1	0
Feline Infectious Anemia	0	2
Fibrosis	4	4
For Culture	240	49
For Cytology	9	10
For Hematology	55	22
For Identification	91	19
For Serology	1	0
For Urinalysis	15	4
Gastritis	4	1
Gastroenteritis	2	0
Gingivitis	5	3
Glossitis	1	0
Granulation Tissue	15	4
Granuloma	18	5

CANINE AND FELINE DISEASES

(Airdrie, Fairview, and Lethbridge included)

DISEASE	CANINE	FELINE
Growth		
Hyperplasia	12	4
Inflammation	108	27
Gunshot	1	1
Heat Prostration	2	0
Hematoma	10	0
Hepatic		
Cirrhosis	6	0
Fibrosis	4	0
Lipidosis	5	4
Necrosis	4	4
Hepatitis	10	5
Bacterial	1	0
Infectious Canine	5	0
Necrotic	1	0
Toxic	1	0
Unknown	3	0
Hernia	1	0
Hernia Diaphragmatic	1	0
Hip Dysplasia	3	0
Hydrocephalus	13	0
Hydronephrosis	0	1
Hydrothorax	0	1
Hyperkeratosis	8	0
Hyperplasia		
Adrenal	2	0
Cystic	2	1
Endometrial	2	0
Pancreas	1	0
Prostate	7	0
Hypoglycemia	1	0

CANINE AND FELINE DISEASES

(Airdrie, Fairview, and Lethbridge included)

DISEASE	CANINE	FELINE
Hypoplasia		
Cerebellar	0	1
Renal	5	1
Icterus	2	3
Impact Bowel	0	1
Infarct	4	2
Infectious Feline Peritonitis	1	28
Intestinal		
Impaction	1	0
Perforation	0	1
Intussusception	4	0
Keratitis	0	1
Lab Exams Negative	409	129
Laryngitis	1	0
Leukosis Myelogenous	0	1
Lymphadenitis	7	3
Mastitis	2	0
Megacolon	0	3
Melanosis	1	0
Meningitis	1	1
Bacterial	2	1
Meningoencephalitis		
Nonsuppurative	1	1
Suppurative	3	1
Metritis	4	1
Miscellaneous Lab Findings		
Bones & Joints	1	0
Circulatory	6	2

CANINE AND FELINE DISEASES

(Airdrie, Fairview, and Lethbridge included)

DISEASE	CANINE	FELINE
Miscellaneous Lab Findings (Continued)		
Digestive	20	5
Eye & Ear	1	1
Hematopoeitic	2	4
Liver	8	3
Muscle	1	0
Nervous	12	1
Other	26	8
Reproductive	10	4
Respiratory	12	3
Urinary	3	1
Myco		
Microsporum Sp	5	0
Myco Sp	2	0
Trichophyton Sp	2	2
Yeast	2	0
Myelitis	2	0
Myeloproliferative Disease	0	6
Myocarditis	6	2
Myositis	3	1
Necrosis Skin	1	0
Negative Salmonella	2	1
Neoplasm (see table)		
Nephritis		
Embolic	0	1
Glomerulo	11	7
Interstitial	9	8
Other	6	7
Pyelo	4	3
Nephrocalcinosis	3	0
Nephrosclerosis	7	3
Nephrosis	6	6
No Diagnosis	147	49

CANINE AND FELINE DISEASES

(Airdrie, Fairview, and Lethbridge included)

DISEASE	CANINE	FELINE
No Test	11	2
No Visible Lesion	20	8
Normal Tissue	17	4
Obstruction		
Esophagus	1	0
Intestinal	0	2
Omphalitis	0	1
Omphalophlebitis	2	1
Orchitis	2	0
Osteodystrophy	0	1
Osteomyelitis	2	0
Otitis	2	0
Externa	75	2
Media	2	0
Parasitism (see table)		
Pancreatic Necrosis	27	4
Panleukopenia	0	64
Pending	2	0
Pericarditis	1	0
Periostitis	1	0
Peritonitis	7	8
Phlebitis	0	1
Pleuritis	3	5
Suppurative	0	3
Pneumonia		
Broncho	10	7
Chronic Nonresolving	1	2

CANINE AND FELINE DISEASES

(Airdrie, Fairview, and Lethbridge included)

DISEASE	CANINE	FELINE
Pneumonia (Continued)		
Inhalation	8	3
Interstitial	5	3
Mycotic	0	1
Other	13	3
Parasitic	1	0
Suppurative	6	2
Viral	1	0
Pneumothorax	2	0
Prostatis	6	0
Pulmonary Edema	11	3
Pyometra	3	0
Pyothorax	2	13
Rabies Negative	18	16
Rupture Liver	1	0
Rupture Stomach	0	1
Salmonellosis	2	0
Septicemia		
E Coli	5	2
Pasteurella	0	3
Staphylococcal	5	0
Streptococcal	3	0
Unknown	12	3
Shock	5	1
Sialoadenitis	1	0
Sinusitis	1	0
Specimen Unsuitable	20	6
Splenic Hyperplasia	1	0
Spondylitis	1	0

CANINE AND FELINE DISEASES

(Airdrie, Fairview, and Lethbridge included)

DISEASE	CANINE	FELINE
Starve Out	0	1
Steatitis	0	3
Stillborn	2	1
Stomatitis	1	1
Synovitis	2	0
Testicular Hypoplasia	1	0
Tonsillitis	4	0
Torsion		
Intestinal	12	0
Other	2	1
Stomach	7	0
Toxicosis (see table)		
Toxoplasmosis	1	1
Trauma	41	52
Typhlitis	0	1
Ulcer	4	1
Gastric	1	0
Unsuitable Animals	1	1
Uremia	1	0
Urethral Obstruction	1	8
Urinary Calculi	15	8
Vaginitis	4	0
Vascular Thrombosis	0	1
TOTAL	2,636	996

LABORATORY ANIMALS

(Airdrie, Fairview, and Lethbridge included)

DIAGNOSIS	GUINEA PIG	HAMSTER	MOUSE	RAT	TOTAL
Abscess	0	2	0	0	2
Cervical	1	0	0	0	1
Anemia Hemorrhage	0	1	0	0	1
Colitis	1	0	0	0	1
Cyst	0	1	0	0	1
Epidermoid	0	1	0	0	1
Deficiency					
Malnutrition	1	0	0	2	3
Vitamin C	1	0	0	0	1
Dermatitis	1	1	3	2	7
Disseminated Intravascular Coagulation	1	0	0	0	1
Emaciation	4	1	0	0	5
Encephalitis Other	1	0	0	0	1
Endometritis	1	0	0	0	1
Enteritis					
Clostridium Sp.	1	0	0	0	1
Hemorrhagic	0	1	0	0	1
Unknown	2	0	1	0	3
Experimental	0	0	2	1	3
Fatty Liver Syndrome	1	0	0	0	1
For Culture	0	0	0	4	4
For Identification	1	0	0	0	1
Growth Inflammation	1	0	0	0	1
Hepatic Lipidosis	2	0	0	0	2
Intussusception	1	0	0	0	1
Lab Exams Negative	6	2	7	7	22

LABORATORY ANIMALS

(Airdrie, Fairview, and Lethbridge included)

DIAGNOSIS	GUINEA PIG	HAMSTER	MOUSE	RAT	TOTAL
Malocclusion	2	0	0	0	2
Miscellaneous Lab Findings					
Circulatory	2	0	0	0	2
Digestive	1	0	0	1	2
Other	3	0	0	0	3
Myopathy	0	0	0	1	1
Neoplasm (see table)					
Nephritis					
Glomerulo	1	1	0	0	2
Interstitial	1	0	0	0	1
Other	2	0	0	0	2
Nephrosis	1	1	0	0	2
No Diagnosis	5	4	4	1	14
No Visible Lesion	0	0	4	1	5
Parasitism (see table)					
Otitis Media	0	0	0	1	1
Pleuritis	1	0	0	0	1
Pneumonia					
Bacterial	1	0	0	0	1
Broncho	1	0	0	0	1
Interstitial	0	0	2	1	3
Other	1	1	0	1	3
Pasteurella	0	0	1	0	1
Suppurative	1	0	0	0	1
Pregnancy Toxemia	2	0	0	0	2
Rabies Negative	0	0	0	1	1
Septicemia Unknown	1	0	0	0	1
Specimen Unsuitable	1	0	0	0	1
Trauma	1	2	0	0	3
Toxicoses (see table)					

LABORATORY ANIMALS

(Airdrie, Fairview, and Lethbridge included)

DIAGNOSIS	GUINEA PIG	HAMSTER	MOUSE	RAT	TOTAL
Typhlitis	1	0	0	0	1
Ulcer Gastric	0	1	0	0	1
TOTAL	56	20	24	24	124

RABBIT DISEASES

(Fairview, Lethbridge, and Airdrie included)

DIAGNOSIS	TOTALS
Abscess	4
Anaphylaxis	1
Bacteria	
Pasteurella Multocida	2
Bloat	1
Coccidiosis	
Hepatic	4
Intestinal	6
Deficiency	
Malnutrition	6
Dehydration	1
Emaciation	1
Encephalitis	
Nonsuppurative	7
Other	3
Suppurative	1
Encephalopathy Coccidial	1
Endometritis	2
Enteric Colibacillosis	1
Enteritis	
Catarrhal	2
Chronic	1
Unknown	23
Experimental	1
For Culture	6
Heat Prostration	1
Hepatic	
Lipidosis	1
Necrosis	3

RABBIT DISEASES

(Fairview, Lethbridge, and Airdrie included)

DIAGNOSIS	TOTALS
Hepatitis	2
Bacterial	1
Unknown	2
Intestinal Impaction	1
Lab Exams Negative	8
Metritis	1
Miscellaneous Lab Findings	
Circulatory	2
Digestive	4
Liver	1
Other	1
Nephritis	
Embolic	1
Glomerular	1
Interstitial	1
Other	1
Pyelo	1
No Diagnosis	3
No Visible Lesion	2
Obstruction Intestinal	1
Osteomyelitis	1
Otitis	1
Media	1
Parasitism (see table)	
Pericarditis	2
Pleuritis	1
Suppurative	1
Pneumonia	
Bacterial	1
Broncho	3
Fibrinous	1
Inhalation	2
Other	4

RABBIT DISEASES

(Fairview, Lethbridge, and Airdrie included)

DIAGNOSIS	TOTALS
Pneumonia (continued)	
Pasteurella	2
Suppurative	1
Pyothorax	1
Rabies Negative	2
Septicemia	
Pasteurella	2
Unknown	3
Specimen Unsuitable	1
Tracheitis	1
Trauma	5
Typhlitis	2
Ulcer Gastric	2
TOTAL	153

FUR-BEARING ANIMALS

(Airdrie, Fairview, and Lethbridge included)

DISEASE	CHINCHILLA	MINK
Aleutian Disease	0	3
Anomaly Eye & Ear	1	0
Coccidios Hepatic	0	1
Deficiency Malnutrition	1	0
Emaciation	2	0
Feed Analysis	0	1
Lab Exams Negative	2	0
Listeriosis	1	0
Malocclusion	1	0
Miscellaneous Lab Findings Other	0	1
Myopathy Nutritional	1	0
No Diagnosis	1	0
No Visible Lesion	0	2
Pneumonia Bacterial	2	0
Pyothorax	0	2
Septicemia Streptococcal	0	1
TOTAL	12	11

FISH, AMPHIBIAN & REPTILE DISEASES

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
AQUARIUM					
Emaciation	1				1
Impaction	1		1		2
Lab Exams Neg	1				1
No Diagnosis	2				2
Peritonitis	3				3
Specimen Unsuitable	5				5
Toxicosis; Ammonia			1		1
GREYLING					
Lab Exams Neg	2				2
PERCH					
Epithelial erosion	1				1
For Identification	1				1
Lab Exams Neg	1				1
Specimen Unsuitable	1		1		2
PIKE					
Chilling	1				1
Neoplasm Lymphosarcoma	4				4
SALMON					
Parasitism, Other	1				1
SUCKER					
Misc. lab findings Other	1				1
TROUT, BROOK					
Bacterial Kidney Dis	4				4

FISH, AMPHIBIAN & REPTILE DISEASES (continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Emaciation	3				3
Fin Rot	1				1
Lab Exams Neg	5				5
Misc. lab findings Reproductive	2				2
No Diagnosis	3				3
No Test	1				1
Pericarditis	1				1
Peritonitis	2				2
Saprolegniasis	5				5
Specimen Unsuitable	2				2
TROUT, BROWN					
Lab Exams Neg	1				1
No Test	1				1
TROUT, CUTTHROAT					
Lab Exams Neg	2				2
TROUT, GOLDEN					
Dermatitis	1				1
TROUT, KAMLOOPS					
Specimen Unsuitable	1				1
TROUT, LAKE					
Infectious Pancreatic Necrosis	2				2
TROUT, RAINBOW					
B Yersina			1		1

FISH, AMPHIBIAN & REPTILE DISEASES
(continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Bacterial Kidney Dis	9				9
Columnaris Disease	2				2
Dermatitis	8				8
Emaciation	1				1
Experimental	5				5
Fracture	1				1
Impaction	1				1
Infectious Pancreatic Necrosis	1				1
Lab Exams Neg	10				10
Mismanagement			1		1
Misc. lab findings Reproductive	1				1
Myositis	2				2
Nephritis, Interstitial	1				1
Nephrocalcinosis	4				4
No Diagnosis	3				3
Normal tissue	1				1
No Visible Lesion	1				1
Pericarditis	1				1
Peritonitis	7				7
Saprolegniasis	2		3		5
Scoliosis	1				1
Specimen Unsuitable	3				3
Trauma	7				7
Vibrio Cholera	1				1

FISH, AMPHIBIAN & REPTILE DISEASES (continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
TROUT, UNIDENTIFIED					
Lab Exams Neg	1				1
No Diagnosis	1		1		2
Saprolegniasis	1				1
TURBOT					
For Identification	1				1
UNIDENTIFIED					
No Visible Lesion	1				1
Specimen Unsuitable	2				2
WALLEYE					
Lab Exams Neg	5				5
Lymphocystis	1				1
Myositis	1				1
Parasitism, Other	1				1
Parasitism, Tapeworm	1				1
Specimen Unsuitable	1				1
WHITEFISH					
For identification	2				2
Neoplasm, Sarcoma	1				1
WHITEFISH, ROCKY MOUNTAIN					
Lab Exams Neg	1				1
REPTILES IGUANA					
Emaciation	2				2
Granuloma	1				1

FISH, AMPHIBIAN & REPTILE DISEASES
(continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Osteomyelitis	1				1
LIZARD UNIDENTIFIED					
For culture	1				1
Pneumonia Granulomatous	1				1
Oophoritis	1				1
SNAKE, BOA					
Enteritis, Necrotic	2				2
Lab Exams Neg	1				1
Neoplasm, Hemangiopericytoma	1				1
Salmonellosis	1				1
SNAKE, BOA MEXICAN					
No Visible Lesion	1				1
SNAKE, CORN					
Enteritis, Necrotic	1				1
Peritonitis	1				1
SNAKE, BURMESE PYTHON					
Deficiency Cal Phos	1				1
Emaciation	1				1
Enteritis, Necrotic	1				1
No Diagnosis	1				1
Rickets	1				1
Stomatitis	2				2
SNAKE, RETICULATED PYTHON					
Hepatitis Bacterial	1				1

FISH, AMPHIBIAN & REPTILE DISEASES
(continued)

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
Lab Exams Neg	1				1
SNAKE, UNIDENTIFIED					
Dermatitis	1				1
Steatitis	1				1

EXOTIC PETS, WILDLIFE, ZOO ANIMALS DISEASES

(Airdrie, Fairview, and Lethbridge included)

DIAGNOSIS	EXOTIC PETS	WILD ANIMALS	ZOO ANIMALS
Abomasitis	0	1	0
Abscess	1	3	1
Brain	0	1	0
Anemia Hemorrhage	0	2	0
Anomaly			
Musculoskeletal	0	1	0
Nervous	0	1	0
Arthritis			
Chronic	0	1	0
Degenerative	0	1	0
Aspergillosis	1	0	0
Asphyxiation	1	0	0
Bacteria			
Past. Multocida	0	0	1
Salmonella Sp.	0	2	2
Bloat	0	1	0
Botulism	0	1	0
Cardiomyopathy	0	0	1
Cellulitis	0	0	1
Colitis	0	0	2
Contagious Ecthyma	0	1	0
Cyst	0	1	0
Deficiency			
Calcium Phosphorus Imbalance	0	1	0
Malnutrition	0	2	6
Phosphorus	0	1	0
Starvation	1	0	0
Vitamin B. Complex	1	0	0
Dehydration	1	0	0

EXOTIC PETS, WILDLIFE, ZOO ANIMALS DISEASES

(Airdrie, Fairview, and Lethbridge included)

DIAGNOSIS	EXOTIC PETS	WILD ANIMALS	ZOO ANIMALS
Dermatitis	1	1	2
Dystocia	0	1	0
Emaciation	5	6	3
Enteric Colibacillosis	1	0	1
Enteritis			
Necrotic	0	1	1
Unknown	0	2	3
Viral	0	0	5
Feed Analysis	0	1	0
For Culture	5	10	8
For Hematology	1	0	0
For Identification	0	11	4
For Serology	0	0	1
Glossitis	0	1	0
Gout	0	0	2
Visceral	1	0	0
Gunshot	0	4	0
Hemorrhagic Liver Syndrome	1	0	0
Hepatic Lipidosis	0	1	0
Hepatitis	0	2	0
Toxic	1	0	0
Unknown	4	0	0
Histomoniasis	1	0	0
Hyperplasia Thyroid	1	0	0
Impact Bowel	1	0	0
Intussusception	0	0	1
Lab Exams Negative	2	29	7

EXOTIC PETS, WILDLIFE, ZOO ANIMALS DISEASES

(Airdrie, Fairview, and Lethbridge included)

DIAGNOSIS	EXOTIC PETS	WILD ANIMALS	ZOO ANIMALS
Laryngitis	1	0	0
Leg Weakness	1	0	0
Leukosis Myelogenous	1	0	0
Meningitis	0	2	0
Miscellaneous Lab Findings			
Circulatory	0	0	1
Digestive	3	0	1
Other	1	2	0
Reproductive	0	0	1
Respiratory	1	0	0
Urinary	1	0	0
Myocarditis	0	0	1
Myopathy Capture	0	1	0
Myositis	0	0	1
Negative Salmonella	1	2	0
Neo Natal Diarrhea	0	1	0
Nephritis			
Glomerulo	1	0	2
Interstitial	0	0	1
Other	0	0	2
Pyelo	0	0	1
Nephrosis	4	0	0
No Diagnosis	8	12	6
No Test	0	1	0
No Visible Lesion	6	1	0
Normal Tissue	0	3	0
Obesity	1	0	0
Osteodystrophy	0	1	0
Pancreatic Necrosis	0	1	0

EXOTIC PETS, WILDLIFE, ZOO ANIMALS DISEASES

(Airdrie, Fairview, and Lethbridge included)

DIAGNOSIS	EXOTIC PETS	WILD ANIMALS	ZOO ANIMALS
Pericarditis	0	0	1
Peritonitis	1	1	1
Pneumonia			
Atypical Interstitial	0	1	0
Bacterial	1	3	0
Broncho	0	2	1
Gangrenous	0	1	0
Granulomatous	2	0	0
Inhalation	0	0	1
Other	1	0	1
Pasteurella	0	2	0
Prolapse Cloaca	1	0	0
Pulmonary Edema	0	1	0
Rabies Negative	0	87	0
Rickets	1	0	0
Rumen Overload	0	0	1
Salmonellosis	1	1	0
Septicemia			
Aeromonas	0	0	1
Unknown	1	0	0
Serositis	0	1	0
Specimen Unsuitable	1	1	1
Stomatitis	0	0	1
Stress	2	0	0
Suitable for Human Use	0	2	0
Torsion			
Mesenteric	0	1	0
Stomach	0	1	0
Trauma	3	11	2
Tuberculosis	1	0	0

EXOTIC PETS, WILDLIFE, ZOO ANIMALS DISEASES

(Airdrie, Fairview, and Lethbridge included)

DIAGNOSIS	EXOTIC PETS	WILD ANIMALS	ZOO ANIMALS
Typhlitis	1	0	0
Ulcer Gizzard	1	0	0
Unsuitable for Human Use	0	5	0
Urinary Calculi	0	1	0
TOTAL	79	240	80

RABIES SUMMARY

SPECIES	LOCATION	NUMBER POSITIVE	DATE CONFIRMED
Skunk	Co. of Newell	1	January 5
Skunk	Co. of Warner	1	January 10
Skunk	Co. of Warner	1	January 14
Skunk	Co. of Warner	1	January 17
Skunk	Co. of Newell	1	January 19
Skunk	Co. of Warner	1	January 24
Skunk	Co. of Warner	1	January 31
Cat	City of Edmonton	1	February 3
Skunk	Co. of Warner	2	February 7
Skunk	Co. of Newell	1	February 23
Skunk	Co. of Warner	1	March 4
Skunk	Co. of Warner	3	March 28
Skunk	Co. of Warner	3	April 18
Skunk	Co. of Warner	1	April 22
Skunk	Co. of Warner	2	May 9
Cat	Co. of Forty Mile	1	May 19
Bat	City of Lethbridge	1	May 30
Skunk	Co. of Warner	1	June 13
Bat	City of Lethbridge	1	August 4
Bat	I.D. 14	1	August 10
Bat	City of Red Deer	1	August 23
Bat	Co. of Athabasca	1	August 23
Skunk	Co. of Warner	1	November 7

RABIES SUMMARY (CONTINUED)

SPECIES	LOCATION	NUMBER POSITIVE	DATE CONFIRMED
Skunk	Co. of Warner	3	November 14
Skunk	Co. of Warner	2	November 18
Skunk	Co. of Warner	1	November 28
Skunk	Co. of Warner	2	December 5
Skunk	Co. of Warner	1	December 12
Cat	Co. of Vermilion River	1	December 16
Skunk	Co. of Warner	1	December 19

TOTALS	SKUNKS	32
	BATS	5
	CATS	3
		40

MISCELLANEOUS BIRDS

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
BUDGIE					
Air Sacculitis	1	3	0	0	4
Asphyxiation	3	0	0	0	3
Bacteria					
Staphylococcus Sp.	1	0	0	0	1
Candidiasis	2	0	0	0	2
Cardiomyopathy	0	1	0	0	1
Chlamydiosis	1	0	0	0	1
Coccidios Intestinal	2	0	0	0	2
Deficiency Malnutrition	0	1	0	0	1
Dermatitis Gangrenous	1	0	0	0	1
Emaciation	5	1	0	1	7
Encephalomalacia	1	0	0	0	1
Enteric Colibacillosis	1	0	0	0	1
Feathering Poor	0	0	0	1	1
For Culture	1	0	0	0	1
For Identification	1	1	0	0	2
Goitre	3	0	0	0	3
Gout Visceral	0	0	0	1	1
Hepatic					
Cirrhosis	0	0	0	1	1
Lipidosis	0	0	0	1	1
Necrosis	1	1	0	0	2
Hepatitis	1	2	0	0	3
Bacterial	0	1	0	0	1
Necrotic	0	1	0	0	1
Toxic	0	1	0	0	1
Unknown	5	0	0	0	5
Hyperkeratosis	1	0	0	0	1

MISCELLANEOUS BIRDS

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
BUDGIE (continued)					
Hyperplasia Thyroid	11	0	0	0	11
Hypothyroidism	1	0	0	0	1
Impaction	0	0	0	1	1
Lab Exams Negative	3	7	0	0	10
Leukosis Myelogenous	1	0	0	0	1
Misc. Lab Findings					
Digestive	1	0	0	0	1
Neoplasms					
Adenocarcinoma	3	1	0	0	4
Biliary	1	0	0	0	1
Ovary	0	0	1	0	1
Adenoma	1	0	0	2	3
Carcinoma	2	0	0	0	2
Squamous	0	0	1	0	1
Thyroid	1	0	0	0	1
Undifferentiated	1	0	0	0	1
Fibrosarcoma	1	0	0	0	1
Sarcoma Undifferentiated	2	0	0	0	2
No Diagnosis	8	4	0	1	13
No Visible Lesion	3	0	0	0	3
Obesity	0	1	0	0	1
Pneumonia Other	0	2	0	0	2
Septicemia Unknown	2	0	0	0	2
Stress	2	0	0	0	2
Tracheitis	1	0	0	0	1
Trauma	0	1	0	1	2
Ulcer Gizzard	1	0	0	0	1
CANARY					
Abscess	1	0	0	0	1

MISCELLANEOUS BIRDS

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
CANARY (continued)					
Air Sacculitis	1	0	0	0	1
Cardiac Failure	1	0	0	0	1
Cyst	1	0	0	0	1
Deficiency Malnutrition	0	1	0	0	1
Eggbound	1	0	0	0	1
Emaciation	1	0	0	0	1
Heat Prostration	0	1	0	0	1
Hepatitis Unknown	1	0	0	0	1
Hyperplasia Thyroid	1	0	0	0	1
Hypothyroidism	1	0	0	0	1
Lab Exams Negative	0	1	0	0	1
Misc. Lab Findings					
Liver	1	0	0	0	1
Other	2	1	0	0	3
Myocarditis	0	1	0	0	1
Neoplasms					
Carcinoma	1	0	0	0	1
Lymphosarcoma	0	1	0	0	1
Myelosarcoma	1	0	0	0	1
Nephrosis	1	0	0	0	1
No Diagnosis	2	1	1	1	5
No Visible Lesion	0	0	0	1	1
Pending	0	1	0	0	1
Peritonitis	1	0	0	0	1
Pneumonia Other	1	0	0	0	1
Pox	3	0	0	0	3
Reproductive Disorder	1	0	0	0	1

MISCELLANEOUS BIRDS

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
CANARY (continued)					
Septicemia E Coli	1	0	0	0	1
Specimen Unsuitable	1	1	0	0	2
Trauma	1	0	0	0	1
COCKATEEL					
Air Sacculitis	5	0	0	0	5
Anemia Hemorrhage	2	0	0	0	2
Asphyxiation	1	0	0	0	1
Candidiasis	5	0	0	0	5
Cardiomyopathy	1	0	0	0	1
Chlamydiosis	4	0	0	0	4
Dermatitis Endocrine	0	1	0	0	1
Emaciation	3	0	0	0	3
Enteritis					
Necrotic	1	0	0	0	1
Unknown	2	0	0	0	2
For Culture	8	0	0	0	8
Gizzard Ulceration	1	0	0	0	1
Goitre	1	0	0	0	1
Gout	0	1	0	0	1
Granulation Tissue	1	0	0	0	1
Hepatic Lipidosis	0	0	0	1	1
Hepatitis	0	1	0	0	1
Viral	1	0	0	0	1
Unknown	2	0	0	0	2
Hyperplasia Thyroid	4	0	0	0	4
Impact Bowel	1	0	0	0	1

MISCELLANEOUS BIRDS

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
COCKATEEL (continued)					
Impaction	0	1	0	1	2
Lab exams Negative	4	3	0	0	7
Misc. Lab. Findings					
Digestive	1	1	0	0	2
Respiratory	1	0	0	0	1
Neoplasms					
Adenoc Undifferentiated	1	0	0	0	1
Fibrosarcoma	2	0	0	0	2
Lymphosarcoma	1	0	0	0	1
Sarcoma Undifferentiated	0	1	0	0	1
Nephritis Interstitial	1	0	0	0	1
Nephrosis	1	0	0	0	1
No Diagnosis	7	1	0	0	8
No Visible Lesions	5	0	0	0	5
Osteomalacia	1	0	0	0	1
Osteoporosis	1	0	0	0	1
Pancreatic Necrosis	1	0	0	0	1
Peritonitis	1	1	0	0	2
Rickets	1	0	0	0	1
Septicemia Unknown	1	1	0	0	2
Specimen Unsuitable	1	0	0	0	1
Spondylitis	1	0	0	0	1
Stress	4	0	0	0	4
Trauma	1	0	0	0	1
Ulcer Gizzard	1	0	0	0	1
Xanthomatosis	2	0	0	0	2

MISCELLANEOUS BIRDS

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
DUCK					
Air Sacculitis	0	2	0	2	4
Arthritis					
Bacterial	0	1	0	0	1
Staphylococcal	1	1	0	0	2
Unknown	1	0	0	0	1
Aspergillosis	3	0	0	0	3
Botulism	1	0	0	0	1
Deficiency					
Malnutrition	0	0	1	1	2
Starvation	0	2	0	0	2
Vitamin A	0	0	0	1	1
Enteritis Unknown	1	0	0	0	1
Experimental	0	1	0	0	1
For Identification	0	1	0	0	1
Gizzard Perforation	1	0	0	0	1
Gout	0	2	0	0	2
Visceral	2	0	0	0	2
Hepatitis	0	1	0	0	1
Unknown	1	0	0	0	1
Keratoconjunctivitis	0	0	0	3	3
Lab Exams Negative	1	0	0	0	1
Leukocytozoon	7	0	0	0	7
Meningitis	0	0	0	1	1
Misc. Lab Findings					
Reproductive	1	0	0	0	1
Myopathy	0	0	0	4	4
Neoplasm Fibroma	1	0	0	0	1
No Diagnosis	3	0	0	3	6
No Visible Lesion	2	0	0	0	2

MISCELLANEOUS BIRDS

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
DUCK (continued)					
Peritonitis	0	1	1	0	2
Reproductive Disorder	1	0	0	0	1
Rickets	0	1	0	0	1
Septicemia Staphylococcal	1	0	0	0	1
Trauma	0	1	0	0	1
Unsuitable Animals	0	0	1	0	1
GOOSE					
Air Sacculitis	0	0	0	3	3
Arthritis Staphylococcus	1	0	0	0	1
Bacteria Past. Anatipestifer	1	0	0	0	1
Deficiency Malnutrition	1	0	0	0	1
Dehydration	1	0	0	0	1
Enteritis Clostridium Sp.	0	1	0	0	1
Fowl Cholera	0	0	0	1	1
Granuloma	0	0	0	1	1
Hepatic Necrosis	0	1	0	0	1
Impact Bowel	0	0	1	0	1
Impaction	0	1	0	0	1
Meningitis	0	0	0	1	1
Mismanagement	0	0	1	0	1
Myocarditis	0	1	0	0	1
Myositis	0	0	1	0	1
Neoplasm Fibrosarcoma	1	0	0	0	1

MISCELLANEOUS BIRDS

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
GOOSE (continued)					
No Diagnosis	3	0	2	0	5
Obstruction Esophagus	0	0	0	1	1
Omphalitis	1	0	0	0	1
Reproductive Disorder	3	0	0	0	3
Rupture Aortic	1	0	0	0	1
Sinusitis	1	0	0	0	1
Suitable Animals	1	0	0	0	1
Trauma	0	1	0	0	1
Tuberculosis	0	1	0	0	1
PARAKEET					
Chlamydiosis	1	0	0	0	1
Conjunctivitis	1	0	0	0	1
Hepatitis Necrotic	0	1	0	0	1
No Diagnosis	3	1	0	0	4
Trauma	0	2	0	1	3
PARROT					
Air Sacculitis	1	3	0	0	4
Aspergillosis	0	1	0	0	1
Cardiac Failure	1	0	0	0	1
Chlamydiosis	9	0	0	0	9
Emaciation	4	0	0	0	4
For Culture	7	0	0	0	7
For Identification	1	0	0	0	1

MISCELLANEOUS BIRDS

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
PARROT (continued)					
Hepatic					
Fibrosis	1	0	0	0	1
Necrosis	0	1	0	0	1
Hepatitis	0	1	0	0	1
Viral	0	1	0	0	1
Hyperplasia Biliary	1	0	0	0	1
Lab Exams Negative	3	1	0	1	5
Misc. Lab Findings					
Digestive	1	0	0	0	1
Other	0	1	0	0	1
Reproductive	1	0	0	0	1
Respiratory	0	2	0	0	2
Negative Salmonella	0	0	0	1	1
Neoplasm					
Adenoma	0	1	0	0	1
Myelosarcoma	1	0	0	0	1
Papilloma	1	0	0	0	1
Nephritis Interstitial	1	0	0	0	1
Nephrosis	2	0	0	0	2
No Diagnosis	3	0	0	0	3
No Visible Lesion	1	0	0	0	1
Osteoporosis	1	0	0	0	1
Pericarditis	1	0	0	0	1
Pneumonia					
Granulomatous	0	1	0	0	1
Mycotic	1	0	0	0	1
Rupture Liver	1	0	0	0	1
Salmonellosis	2	0	0	0	2
Septicemia Unknown	1	1	0	0	2
Shock	1	0	0	0	1

MISCELLANEOUS BIRDS

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
PARROT (continued)					
Sinusitis	0	0	0	1	1
Stress	3	0	0	0	3
PHEASANT					
Air Sacculitis	0	3	0	0	3
Anomaly Cardiovascular	0	1	0	0	1
Aspergillosis	1	0	0	0	1
Bronchitis	0	2	0	0	2
Bumblefoot	1	0	0	0	1
Cannibalism	0	1	1	0	2
Cardiac Failure	0	1	0	0	1
Cardiomyopathy	0	1	0	0	1
Coccidiosis					
Cecal	0	3	0	0	3
Intestinal	0	1	0	0	1
Deficiency					
Malnutrition	0	3	0	0	3
Starvation	0	9	1	0	10
Vitamin A	0	0	1	0	1
Dehydration	1	12	0	0	13
Dermatitis	0	1	0	0	1
Eggbound	0	1	0	0	1
Emaciation	0	1	1	4	6
Enteritis					
Hemorrhagic	0	1	0	0	1
Unknown	0	7	0	0	7
Feed Analysis	0	1	0	0	1
For Culture	0	0	1	0	1

MISCELLANEOUS BIRDS

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
PHEASANT (continued)					
Gizzard					
ERosion	1	0	0	0	1
Impaction	1	1	0	0	2
Gout	0	1	0	0	1
Visceral	1	0	0	0	1
Growth Inflammation	0	1	0	0	1
Hepatitis	0	1	0	0	1
Toxic	0	1	0	0	1
Viral	0	1	0	0	1
Histomoniasis	0	0	0	1	1
Impaction	0	8	0	0	8
Infectious Coryza	0	0	2	0	2
Lab Exams Negative	0	7	0	0	7
Leg Weakness	0	1	0	0	1
Litter Eating	1	0	0	0	1
Marble Spleen Disease	0	1	0	0	1
Misc. Lab Findings					
Digestive	1	0	0	0	1
Eye & Ear	0	1	0	0	1
Neoplasms					
Melanoma Malignant	1	0	0	0	1
Sarcoma Undifferentiated	0	1	0	0	1
Negative					
Salmonella	0	0	0	1	1
Salmonella Para.	2	0	0	0	2
No Diagnosis	0	12	0	0	12
Omphalitis	0	2	0	0	2
Overheating	1	0	0	0	1
Pericarditis	0	12	0	0	12

MISCELLANEOUS BIRDS

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
PHEASANT (continued)					
Pneumonia					
Bacterial	1	0	0	0	1
Mycotic	1	5	0	1	7
Other	0	1	0	0	1
Septicemia					
E Coli	0	2	0	0	2
Unknown	0	4	0	0	4
Sinusitis	3	1	0	1	5
Starve Out	0	5	0	0	5
Trauma	2	18	1	1	22
Tuberculosis	2	0	0	1	3
Typhlitis	1	0	0	0	1
PIGEON					
Abscess	1	0	0	0	1
Air Sacculitis	1	1	0	1	3
Arthritis					
Bacterial	1	0	0	0	1
Degenerative	0	0	0	1	1
Candidiasis	1	0	0	0	1
Chronic Respiratory Disease	1	0	0	0	1
For Culture	3	0	0	0	3
Gout	0	1	0	0	1
Growth Inflammation	0	1	0	0	1
Hepatitis Bacterial	1	0	0	0	1
Impaction Oviduct	2	0	0	0	2
Lab Exams Negative	2	0	0	6	8

MISCELLANEOUS BIRDS

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
PIGEON (continued)					
Misc. Lab Findings					
Other	0	0	0	1	1
Negative Salmonella Para	1	0	0	0	1
Neoplasm					
Fibropapilloma	0	1	0	0	1
Hemangiosarcoma	0	1	0	0	1
No Diagnosis	3	0	0	0	3
No Visible Lesion	1	0	0	1	2
Osteomalacia	1	0	0	0	1
Peritonitis	0	0	0	1	1
Pleuritis	0	1	0	0	1
Pneumonia					
Granulomatous	1	0	0	0	1
Inhalation	1	0	0	0	1
Suppurative	0	1	0	0	1
Rupture Spleen	1	0	0	0	1
Salmonellosis	5	1	0	0	6
Septicemia E Coli	1	0	0	0	1
Trauma	1	1	0	1	3
Tuberculosis	0	2	0	0	2
WILD BIRDS					
Air Sacculitis	0	5	0	1	6
Anemia Hemorrhage	1	1	0	0	2
Aspergillosis	4	0	0	0	4
Bacteria					
Salmonella Sp.	0	2	0	0	2
Botulism	3	6	0	0	9

MISCELLANEOUS BIRDS

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
WILD BIRDS (continued)					
Candidiasis	1	1	0	0	2
Cannibalism	0	9	0	0	9
Cardiomyopathy	1	0	0	0	1
Chilling	0	1	0	0	1
Coccidiosis Intestinal	1	0	0	0	1
Deficiency					
Malnutrition	0	5	0	0	5
Starvation	0	1	0	0	1
Dehydration	0	5	0	0	5
Dermatitis					
Endocrine	0	1	0	0	1
Mycosis	0	1	0	0	1
Eggbound	0	1	0	0	1
Emaciation	2	2	0	0	4
Endocarditis	1	0	0	0	1
Enteritis					
Catarrhal	1	0	0	0	1
Necrotic	1	0	0	0	1
Unknown	0	5	0	0	5
Feed Analysis	0	1	0	0	1
For Culture	3	0	0	0	3
For Identification	0	0	1	0	1
Gout	0	1	0	0	1
Visceral	0	1	0	0	1
Gunshot	0	2	0	0	2
Hepatic Necrosis	0	1	0	0	1
Hepatitis	0	2	0	0	2
Inclusion Body	0	0	0	1	1
Toxic	0	1	0	0	1
Viral	0	1	0	0	1

MISCELLANEOUS BIRDS

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
WILD BIRDS (continued)					
Histomoniasis	0	4	0	0	4
Infectious Laryngotracheitis	0	1	0	0	1
Lab Exams Negative	1	11	0	0	12
Misc. Lab Findings					
Nervous	0	1	0	0	1
Other	1	1	0	0	2
Reproductive	7	0	0	0	7
Respiratory	0	2	0	0	2
Myco Yeast	0	1	0	0	1
Mycosis	0	1	0	0	1
Myocarditis	0	1	0	0	1
Myopathy	0	1	0	0	1
Neoplasm					
Lymphosarcoma	1	0	0	0	1
Negative Salmonella	0	0	0	1	1
Nephrosis	1	0	0	0	1
No Diagnosis	4	5	0	1	10
Omphalitis	0	2	0	0	2
Omphalophlebitis	0	1	0	0	1
Peritonitis	1	2	0	0	3
Pneumonia					
Broncho	0	1	0	0	1
Inhalation	0	1	0	0	1
Pulmonary Edema	0	1	0	0	1
Salmonellosis	3	0	0	0	3
Specimen Unsuitable	1	1	0	0	2

MISCELLANEOUS BIRDS

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
WILD BIRDS (continued)					
Starve Out	0	1	0	0	1
Trauma	5	9	1	0	15
Ulcer Gizzard	1	0	0	0	1
ZOO BIRDS					
Abscess	0	1	0	0	1
Air Sacculitis	0	4	0	0	4
Aspergillosis	1	0	0	0	1
Bacteria					
Mycob TB	0	1	0	0	1
Cardiomyopathy	0	1	0	0	1
Deficiency					
Malnutrition	0	4	0	0	4
Starvation	0	0	1	0	1
Emaciation	2	7	0	0	9
For Culture	5	0	0	0	5
Fowl Cholera	0	1	0	0	1
Fracture	1	0	0	0	1
Hepatic Lipidosis	1	0	0	0	1
Hepatic Necrosis	0	1	0	0	1
Hepatitis	0	1	0	0	1
Impaction	0	2	0	0	2
Lab Exams Negative	11	3	0	0	14
Myopathy Nutritional	0	1	0	0	1
Pulmonary Edema	0	1	0	0	1
Proventriculus	1	0	0	0	1

MISCELLANEOUS BIRDS

DISEASE	EDMONTON	AIRDRIE	FAIRVIEW	LETHBRIDGE	TOTAL
ZOO BIRDS (Continued)					
Pulmonary Edema	0	1	0	0	1
Rupture Aortic	0	1	0	0	1
Salmonellosis	1	0	0	0	1
Septicemia Staph	1	0	0	0	1
Trauma	0	2	0	0	2
Typhlitis	0	1	0	0	1
TOTAL	404	372	22	66	864

MISCELLANEOUS & OTHER SUBMISSIONS
(Feed, water, human, etc.)

(Fairview, Lethbridge, and Airdrie included)

DIAGNOSIS	TOTALS
Air Sacculitis	1
Bacteria	
Bacillus Species	1
Salmonella Species	2
Streptococcus Species	1
Cardiomyopathy	2
Deficiency	
Calcium	1
Malnutrition	2
Protein	1
Selenium	1
Starvation	1
Dermatitis	1
Emaciation	1
Enteritis Unknown	1
Experimental	3
Feed Analysis	7
For Culture	10
For Identification	27
For Serology	1
Gout	1
Granulation Tissue	1
Heat Prostration	1
Hepatic	
Fibrosis	1
Lipidosis	1
Hepatitis Unknown	1
Histomoniasis	1
Lab Exams Negative	92

MISCELLANEOUS & OTHER SUBMISSIONS
(Feed, water, human, etc.)

(Fairview, Lethbridge, and Airdrie included)

DIAGNOSIS	TOTALS
Malignant Edema	1
Miscellaneous Lab Findings	
Nervous	1
Other	9
Respiratory	1
Negative Salmonella	1
Nephritis	
Glomerulo	1
Interstitial	1
Other	1
Nephrosis	1
No Diagnosis	8
No Test	7
No Visible Lesions	3
Osteomalacia	1
Otitis Externa	1
Pending	1
Pleuritis	1
Pneumonia	
Other	1
Parasitic	2
Suppurative	1
Pulmonary Edema	1
Rabies Negative	2
Rumenitis	1
Septicemia Streptococcal	1
Specimen Unsuitable	4
Splenic Hyperplasia	1

MISCELLANEOUS & OTHER SUBMISSIONS
(Feed, water, human, etc.)

(Fairview, Lethbridge, and Airdrie included)

DIAGNOSIS	TOTALS
Suitable Animals	76
Torsion Intestinal	2
Tracheitis	1
Trauma	6
Unsuitable Animals	4
Urethral Obstruction	1
TOTAL	306

FETAL EXAMINATIONS

(Fairview, Airdrie, & Lethbridge Laboratories included)

Disease	Bovine	Porcine	Ovine	Equine
BACTERIAL				
Bacillus	23	-	-	-
Coliforms	15	2	1	1
Corynebacterium	33	1	-	-
Hemophilus	3	-	-	-
Listeria	4	-	-	-
Streptococcus	22	-	-	9
Campylobacter	7	-	2	-
Staphylococcus	6	-	-	-
Bacterial (U.D.O.)	131	12	6	10
Other #1	14	-	2	1
VIRAL				
B.V.D.	1 (1)	-	-	-
E.A.E.	-	-	13 (8)	-
E.V.R.	-	-	-	7 (6)
I.B.R.	29 (27)	-	-	-
P.I.3	7 (7)	-	-	-
SMEDI	-	21 (20)	-	-
VIRAL (U.D.O.)	3 (3)	-	-	1 (1)
MYCOTIC				
Aspergillus	14	-	-	-
Mucor	8	-	-	1
Mycotic (U.D.O.)	13	-	-	-
Other #2	9	-	-	-
NUTRITIONAL				
Iodine Deficiency	3	-	3	1
Malnutrition	4	-	3	-
Selenium Deficiency	1	-	-	-

FETAL EXAMINATIONS

(Fairview, Airdrie, & Lethbridge Laboratories included)

Disease	Bovine	Porcine	Ovine	Equine
CONGENITAL DEFECT				
Alimentary System	4	-	-	1
Blood & Immune System	5	-	-	-
Cardiovascular System	25	-	-	-
Eyes & Ears	4	-	-	2
Musculoskeletal System	39	1	-	1
Nervous System	22	-	-	2
Skin, Appendages & Connective Tissues	4	1	-	-
Urogenital Tract	2	1	-	1
Multiple, Metabolic & Other Defects	42	-	1	3
MISCELLANEOUS				
Twinning	13	2	-	6
Dystocia	61	19	5	7
Mummified	28	4	2	1
Specimen Unsuitable	6	1	4	4
Trauma	2	2	-	1
Other #3	24	1	5	2
PARVO SURVEY				
(Positive)	-	106	-	-
(Negative)	-	12	-	-
NO DIAGNOSIS	589	124	32	76
TOTAL SPECIES	1220	310	79	138

GRAND TOTAL OF ALL SPECIES 1747

FETAL EXAMINATIONS (Continued)

Edmonton Lab Only:

Examinations done for diagnosis of reproductive dysgenesis and disease:

Referrals from other labs	18
Blood Tests	153
Semen Evaluations	44
Biopsies	89
Genital Examinations	
Cervical Mucus	192
Abscess (Pericervical)	1
Granulosa Cell Tumor	2
Squamous Cell Carcinoma	1

* Numbers in parenthesis indicates either herd or flock

FETAL EXAMINATIONS (Continued)

#1 Yersina
Mixed Infection
Pasteurella
B.E. Coli
Chlamydia

#2 Mixed

#3 Seasonal Anestrus
MLF Reproductive
Placentitis
Metritis
Infectious agent
Cardiac Failure
Pine Needle Abortion
Myocarditis
Iatrogenic
Trypanosomes
Bacterial Pericarditis
Encephalit Other
Toxic Dicoumarin
Pneumonia Other
Meningitis
Heat Stress
Cardiac Hypertrophy
Anemia
Pneumonia

PARASITES

(Lethbridge, Fairview, and Airdrie included)

	BOVINE	OVINE	EQUINE	CANINE
Protozoa				
Coccidia	22	16	0	4
Giardia	0	0	0	1
Trichomonas	0	0	0	0
Cestodes				
Cysticercus	1	0	0	0
Moniezia	1	0	0	0
Tapeworm	0	0	0	1
Nematodes				
Ascarids	0	0	1	0
Capillaria	0	0	0	0
Dirofilaria	0	0	0	2
Haemonchus	0	1	0	0
Heterakis	0	0	0	0
Lungworm	2	2	0	0
Dictyocaulus	4	0	0	0
Nematodirus	2	2	0	0
Ostertagia	2	1	0	0
Parascaris equorum	0	0	4	0
Strongyles	24	8	26	0
Strongyloides	0	1	0	1
Toxocara/Toxascaris	0	0	0	1
Trichinella	0	0	0	0
Arthropods				
Fleas	0	0	0	1
Lice	8	0	0	4
Mites	1	0	0	1
Chorioptes bovis	1	0	0	0
Demodex	1	0	0	3
Sarcoptes	1	0	0	0
Ticks	0	0	0	1
Dermacentor	0	0	0	0
Others	2	0	0	3
TOTAL	72	31	31	23

PARASITES

(Lethbridge, Fairview, and Airdrie included)

FELINE	RABBIT	LAB ANIMALS	CAPRINE	SWINE	CHICKENS	OTHER
1	3	1	0	2	7	12
1	0	0	0	0	0	0
0	0	0	0	0	0	3
0	0	0	0	0	0	7
0	0	0	0	0	0	1
0	1	0	0	0	1	9
0	0	0	0	11	19	3
0	0	0	0	0	7	2
0	0	0	0	0	0	0
0	0	0	1	0	0	0
0	0	0	0	0	3	1
0	0	0	1	0	0	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	1	3	0	10
0	0	0	0	0	0	0
2	0	0	0	0	0	1
0	0	0	0	0	0	3
0	0	0	0	0	0	0
0	0	0	0	0	8	4
0	2	2	0	1	6	4
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	2	0	2
0	0	0	0	0	0	3
0	0	0	0	0	0	1
0	1	0	0	0	0	7
4	7	3	3	19	51	74

TOXICOSES
(Lethbridge, Fairview and Airdrie included)

	BOVINE	OVINE	EQUINE	CANINE
Ammonia	0	0	0	0
Arsanalic Acid	0	0	0	0
Arsenic	0	0	0	0
Carbon Monoxide	0	0	0	0
Chlorinated Hydrocarbon	0	0	0	0
Chlorate	1	0	0	0
Chlorine	0	0	0	1
Copper	0	1	0	0
Cyanide	0	0	0	0
Dicoumarin	1	0	0	0
Drugs	0	0	0	0
Ethylene Glycol	0	0	0	14
Fuel Oil	1	0	0	0
Iron	0	0	0	0
Lead	32	0	0	3
Mouldy Feed	0	0	0	0
Negative	8	0	1	9
Nitrate	3	0	0	0
Organophosphate	0	0	0	0
Other	10	0	0	5
Oxalate	2	0	0	4
Petroleum	8	0	0	0
Plant	1	1	1	0
Selenium	0	2	0	0
Sodium Ion	0	0	0	0

TOXICOSES
(Lethbridge, Fairview, and Airdrie included)

FELINE	SWINE	CHICKEN	OTHER
0	0	2	1
0	0	0	1
0	0	0	0
1	0	0	0
0	0	0	1
0	0	0	0
0	0	0	0
0	0	0	1
0	0	0	1
0	0	0	0
0	0	0	0
24	0	0	0
0	0	0	0
0	1	0	0
0	0	1	1
0	0	0	0
1	0	0	0
0	0	0	0
0	0	0	2
2	2	0	2
5	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	9	7	2

TOXICOSES
(Lethbridge, Fairview, and Airdrie included)

	BOVINE	OVINE	EQUINE	CANINE
Strychnine	0	0	0	140
Sulfa	0	0	0	0
Unknown	7	0	1	8
Urea	1	0	0	0
Vitamin D	0	0	0	0
TOTAL	75	4	3	184

TOXICOSES

(Lethbridge, Fairview, and Airdrie included)

FELINE	SWINE	CHICKEN	OTHER
4	0	0	3
0	0	1	0
2	2	0	4
0	0	0	0
0	0	0	1
38	14	16	24

SALMONELLA TABLE 1973 - 1983

POULTRY SALMONELLA ISOLATES

Salmonella isolations from poultry submissions and environmental samples including Edmonton, Lethbridge Fairview and Airdrie

TYPING	'73	'74	'75	'76	'77	'78	'79	'80	'81	'82	'83
S. agona	-	-	-	-	-	-	2	18	4	2	4
S. albany	-	-	-	-	-	-	23	42	2	3	-
S. anatum	-	-	-	-	-	-	1	-	1	-	-
S. arizona	-	-	-	-	-	-	1	14	5	11	9
S. bandaka	-	-	-	-	-	-		-	2	-	-
S. bareilly	-	-	-	-	-	2	6	-	-	-	-
S. blockley	-	-	-	-	-	1	1	-	-	-	-
S. california	-	-	-	1	1	-	4	46	8	18	3
S. carrau	-	-	-	-	-	-	-	-	4	0	-
S. cerro	-	-	3	-	5	1	2	15	9	-	-
S. derby	-	-	-	-	-	-	-	-	1	-	-
S. eimsbuettel	-	-	-	-	-	-	-	24	1	-	-
S. enteritidis	-	-	-	-	-	-	1	1	2	3	7
S. hadar	-	-	-	-	-	-	-	1	-	-	-
S. haardt	-	-	-	-	1	2	24	4	3	1	2
S. havana	-	-	-	-	-	-	-	1	5	-	-
S. heidelberg	-	5	-	3	16	-	21	15	5	1	9
S. indiana	-	-	-	2	2	-	-	-	-	-	-
S. infantis	-	1	2	13	6	10	52	118	47	25	21
S. java	-	-	-	-	-	-	-	4	-	-	-
S. johannesburg	-	-	-	2	-	-	-	-	-	-	-
S. kentucky	-	-	-	-	-	-	1	-	13	16	1
S. kottbus	-	-	1	2	1	-	-	-	-	-	-
S. krusei	-	-	-	-	-	-	1	-	-	-	-

SALMONELLA TABLE CONTINUED

TYPING	'73	'74	'75	'76	'77	'78	'79	'80	'81	'82	'83
S. landau	-	-	-	-	-	-	1	-	-	-	-
S. landau	-	-	-	-	-	-	1	-	-	-	-
S. lille	-	-	-	-	-	-	-	1	-	-	-
S. litchfield	-	-	-	-	-	-	1	1	13	4	2
S. manhattan	-	-	-	1	1	-	-	-	-	-	-
S. minnesota	-	-	-	-	-	1	-	-	-	-	-
S. molade	-	-	-	-	-	-	-	-	3	-	-
S. montevideo	-	-	-	1	2	-	5	33	1	5	3
S. muenster	-	-	-	-	-	-	-	-	1	-	-
S. nienstedten	-	-	-	-	5	3	18	26	31	5	8
S. newington	-	-	1	1	3	-	-	2	-	-	-
S. newport	1	-	-	1	-	1	7	-	-	-	-
S. ohio	-	-	-	4	-	-	-	3	-	-	-
S. oranienburg	1	-	-	-	-	3	4	-	-	2	-
S. rubislaw	-	-	-	-	-	-	-	-	-	1	1
S. saint paul	1	1	-	2	-	1	43	11	15	5	6
S. san diego	1	-	-	-	-	-	-	-	-	-	-
S. schwarzengrund	-	-	-	-	-	-	6	2	9	6	6
S. senftenberg	-	-	-	-	-	-	-	-	-	2	2
S. singapore	-	-	-	-	-	-	1	-	5	-	-
S. species	-	-	-	-	-	-	-	-	1	-	1
S. tennessee	-	-	-	1	1	-	11	-	1	-	-
S. thompson	-	1	1	4	1	3	13	8	1	-	-
S. typhimurium	24	11	11	8	10	36	39	68	8	35	31
S. urbana	-	-	-	-	-	-	-	1	-	-	-
S. verchow	-	-	-	-	-	-	-	1	-	-	-
S. worthington	-	-	1	-	-	-	-	-	-	1	-
subgenus 1.4.5.12:-:-	-	-	-	-	-	-	-	-	-	1	-
subgenus 6.7:-:-	-	-	-	-	-	-	-	-	-	1	
	28	20	20	47	55	64	293	457	201	148	116

POULTRY HEALTH PROGRAM

REGIONAL LABS	REPLACEMENT SAMPLES	BROODING SAMPLES	LAYING SAMPLES	1ST HATCH SAMPLES	TOTAL
TOTAL					
No. of Samples	96	-	100	85	281
No. of Positive	6	-	20	2	28
% Positive	6.25%	-	20.0%	2.4%	10.0%

SUMMARY OF ISOLATES IN ORDER OF MOST ISOLATED

REPLACEMENT SAMPLES	LAYING SAMPLES	1ST HATCH SAMPLES
S. anatum	S. nienstedten (5)	S. agona
S. montevideo	S. schwarzengrund (2)	S. infantis
S. infantis (2)	S. thompson (2)	
S. agona (2)	S. california (2)	
	S. typhimurium (3)	
	S. litchfield	
	S. haardt	
	S. infantis (3)	
	S. seftenberg	

No feed samples were positive for salmonella.

NEOPLASMS

(Lethbridge, Fairview, and Airdrie included)

	BOVINE	OVINE	EQUINE	CANINE
Adamantinoma	0	0	0	1
Adenocarcinoma	5	3	1	27
Biliary	1	0	0	6
Intestinal	0	1	0	5
Mammary Gland	0	0	0	68
Perianal	0	0	0	7
Sebaceous Gland	0	0	0	6
Sweat Gland	0	0	0	1
Undifferentiated	1	0	1	2
Adenoma	1	0	3	19
Basal Cell	0	0	0	1
Ceruminous Gland	0	0	0	3
Interstitial Cell	0	0	0	2
Mammary Gland	0	0	0	28
Perianal Gland	0	0	0	72
Sebaceous Gland	0	0	0	70
Sweat Gland	0	0	0	4
Adnexal Cell Tumor	1	0	0	0
Astrocytoma	0	0	1	4
Basal Cell Tumor	0	0	0	77
Carcinoma	3	0	2	26
Gastric	0	0	0	1
Squamous	25	0	12	36
Undifferentiated	2	0	0	0
Chondroma	0	0	0	2
Chondrosarcoma	0	0	0	2
Dermoid Ocular	1	0	0	0
Ependyomoma	0	0	0	1
Epidermal Inclusion Cyst	0	0	2	24
Epithelioma	0	0	1	28
Epulis	0	0	0	43

NEOPLASMS

(Lethbridge, Fairview, and Airdrie included)

FELINE	LAB ANIMALS	CAPRINE	SWINE	OTHER
0	0	0	0	0
10	0	0	0	1
2	0	0	0	0
3	0	0	0	0
15	2	0	0	0
0	0	0	0	0
0	0	0	0	1
3	0	0	0	0
1	0	0	0	0
1	0	1	0	0
0	0	0	0	0
2	0	0	0	0
0	0	0	0	0
1	0	0	0	0
0	0	0	0	0
2	1	0	0	0
3	0	0	0	0
0	0	0	0	0
1	0	0	0	0
18	0	0	0	2
1	0	0	0	0
2	0	0	0	0
9	0	0	0	1
1	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	0
5	0	0	0	0
1	0	0	0	0

NEOPLASMS

(Lethbridge, Fairview, and Airdrie included)

	BOVINE	OVINE	EQUINE	CANINE
Fibroma	6	0	27	36
Fibropapilloma	9	0	0	1
Fibrosarcoma	3	0	2	12
Granuloma Cell	0	0	3	0
Heart Base Tumour	0	0	0	2
Hemangiocytoma	0	0	0	1
Hemangioma	0	0	2	22
Hemangiopericytoma	0	0	0	44
Hemangiosarcoma	0	0	0	33
Hepatoma	0	0	0	1
Histiocytoma	2	0	0	100
Interstitial Cell Tumour	0	0	0	7
Keratoacanthoma	0	0	0	36
Leiomyoma	1	0	1	6
Leiomyosarcoma	0	0	0	2
Lipoma	0	0	2	42
Liposarcoma	0	0	0	2
Lyphangioma	0	0	0	0
Lymphosarcoma	17	1	3	47
Mastocytoma	1	0	2	81
Melanoma	8	0	9	29
Malignant	0	0	4	12
Mesothelioma	0	0	0	1

NEOPLASMS

(Lethbridge, Fairview, and Airdrie included)

FELINE	LAB ANIMALS	CAPRINE	SWINE	OTHER
12	0	0	0	0
0	0	0	0	0
8	0	0	0	3
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	0
1	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	0
0	1	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	1
0	0	1	0	0
27	3	0	1	1
7	0	0	0	0
2	0	0	0	0
3	0	0	0	0
0	0	0	0	1

NEOPLASMS

(Lethbridge, Fairview, and Airdrie included)

	BOVINE	OVINE	EQUINE	CANINE
Mixed Mammary Tumor	0	0	0	87
Myelosarcoma	0	0	0	1
Myxoma	0	0	1	2
Myxosarcoma	0	0	0	1
Neurofibroma	1	0	0	9
Nevus	0	0	0	6
Osteoma	0	0	0	4
Osteosarcoma	0	0	0	13
Other	1	0	2	17
Papilloma	21	0	6	21
Pheochromocytoma	0	0	0	2
Polyp	0	0	0	4
Rhabdomyosarcoma	0	0	0	1
Sarcoid	0	0	93	0
Sarcoma	0	0	0	7
Undifferentiated	0	0	0	13
Seminoma	0	0	0	20
Sertoli Cell Tumor	0	0	0	27
Synoviosarcoma	0	0	0	1
Transitional Cell Carcinoma	0	0	0	1
Trichoepithelioma	0	0	0	17
TOTAL	110	5	180	1,337

NEOPLASMS

(Lethbridge, Fairview, and Airdrie included)

FELINE	LAB ANIMALS	CAPRINE	SWINE	OTHER
1	0	0	0	0
2	0	0	0	0
2	0	0	0	0
0	0	0	0	1
0	0	0	0	1
1	0	0	0	0
1	0	0	0	0
0	0	0	0	0
6	0	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	1
2	0	0	0	2
0	1	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	0
TOTAL 162	8	2	1	18